

This report is required under Section 705 of the Defense Production Act of 1950, as amended.		BUDGET BUREAU NO. 41-R240J APPROVAL EXPIRES JUNE 30, 1970	
FCRM BDSAF-771 (5-10-67) U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS		1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below) MONSANTO COMPANY 800 N. LINDBERGH BLVD. ST. LOUIS, MO.	
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544			
2. Month and year reported DECEMBER 1968		3. Plant name NITRO	
4. Plant location (See Instructions) NW OF NITRO ON VISCOSSE ROAD IN PUTNAM COUNTY, STATE OF WEST VIRGINIA			
<p style="text-align: center;">INSTRUCTIONS</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p>Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future.</p> <p>File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process.</p> <p>Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1281 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilford County, Maryland, or on State Route 29, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware.</p> <p>Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable.</p> <p>Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions:</p> <ol style="list-style-type: none"> 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak </div> <div style="width: 48%;"> <p>Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report.</p> <p>Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported.</p> <p>Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency.</p> <p>Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants.</p> <p style="text-align: right;">002100</p> <p>Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and picloram included in military defoliants shipped in the month is</p> </div> </div>			

ALN 01002310

EXHIBIT
15

6	Trichlorophenol, technical grade ³	lbs.	—	—
7	Trichlorophenol ⁴	lbs.	—	—
8	Picloram	lbs.	—	—
9	Tordon 101 [®] 5	gals.	—	—

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,4,5-T and 2,4,5-T esters and salts. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item (a)	Production (b)	Receipts		Consumption		Shipments ⁸		End of month stocks (i)
			Domestic sources (c)	Foreign sources (d)	"Orange" (e)	Other products (f)	To military ⁹ defoliant producers (g)	To others (h)	
1	TCB		450,940		560,985				241,047
2	TCP, ³ tech.								
3	TCP ⁴								

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101[®]. (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments ⁸		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D	lbs. ⁶						
2	2,4,5-T	lbs. ⁶	557,220					326,090
3	"Orange" ¹	gals.						
4	Picloram	lbs.		10	10	10	10	10
5	Tordon 101 [®]	gals.						

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments ⁸		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
	Other salts or esters (Identify):							

ALN 01002311

Total			NONE	Total		NONE	

2	Technical material contained in total quantity of above material shipped to DoD.			4	Technical material contained in total quantity of above material shipped to DoD.		
	Item	Quantity			Item	Quantity	
	(a)	(lbs. ⁶)			(a)	(lbs. ⁶)	
		(b)				(b)	
	2,4-D				2,4-D		
	2,4,5-T				Picloram		

Section VIII - WORK SCHEDULE

	Hours per shift	Shifts per day	Days per week
a. Work schedule for previous month	8	3	7
b. Anticipated work schedule required for maximum production	8	3	7

Footnotes:

¹"Orange" - designation assigned to military defoliant formulation of butyl ester of 2,4-D and 2,4,5-T.

²Based on capacity to produce 2,4,5-T component and regardless of availability of 2,4-D component.

³Trichlorophenol, technical grade - designation assigned to TCP used in production of 2,4,5-T, 2,4,5-T esters and salts, "Orange," or Alternate to "Orange". It can also be used to produce other products.

⁴Trichlorophenol - Used to denote a higher grade material than that designated trichlorophenol, technical grade.

⁵Based on capacity to produce picloram.

⁶Acid equivalent.

⁷Alternate to "Orange" - designation assigned to military defoliant formulation of butyl ester of 2,4-D and iso-octyl ester of 2,4,5-T.

⁸Include transfers within the company, except material transferred to another location to be incorporated into military defoliants.

⁹Shipments on rated orders to producers of military defoliants.

¹⁰Include picloram in any form except in Tordon 101 ®, which is to be included in items 5 (d), 5 (e), 5 (f), 5 (g), and 5 (h), Section V.

¹¹On rated orders.

Section IX - REMARKS (Attach additional sheets if necessary.)

NOTE SECTION IV:

TCB:

BEG. INVT. 351,092
 RECEIVED 458,940
 LESS HEELS 8,000
 NET RECEIVED 450,940
 TOTAL TO ACCT. FOR 802,032
 LESS USAGE 560,985
 ENDING INVT. 241,047

NOTE SECTION V:

2, 4, 5-T:

BEG. INVT. 160,300
 NET PRODUCTION 557,220
 TOTAL TO ACCT. FOR 717,520
 LESS SHIPMENTS 391,430
 ENDING INVT. 326,090

4830 LBS OF MATERIAL WAS SHIPPED TO CONSOLIDATED CHEMICAL CO. IN BELLE GLADE, FLORIDA. THE REMAINDER WAS SHIPPED TO MONSANTO'S W.G. KRUMMICH PLANT AT SANGUET, ILL. FOR PROCESSING INTO ORANGE BAND.

This report is required under Section 705 of the Defense Production Act of 1950, as amended.

BUDGET BUREAU NO. 41-K2402
APPROVAL EXPIRES JUNE 30, 1970

FORM BDSAF-771
(8-10-67)

U.S. DEPARTMENT OF COMMERCE
BUSINESS AND DEFENSE SERVICES ADMINISTRATION

INTERMEDIATES AND DEFOLIANTS
CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION,
SHIPMENTS AND STOCKS

Return to: U.S. Department of Commerce
Washington, D.C. 20230
Attention: Business and Defense Services Administration
Chemicals and Allied Products Division - 544

1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below)

MONSANTO COMPANY
800 N. LINDBERGH BLVD.
ST. LOUIS, MO.

2. Month and year reported

NOVEMBER 1968

3. Plant name

NITRO

4. Plant location (See Instructions)

NW OF NITRO ON VISCOSSE ROAD IN PUTNAM
COUNTY, STATE OF WEST VIRGINIA

INSTRUCTIONS

Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future.

File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process.

Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1261 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilford County, Maryland, or on State Route 29, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware.

Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable.

Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions:

1. Assume your current product mix.
2. Assume the plant operates on its current work schedule.
3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered.
4. Assume the availability of adequate labor force, production materials, utilities, etc.
5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak operations.

Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report.

Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported.

Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency.

Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants.

Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and picloram included in military defoliants shipped in the month is required.

Name of person who should be contacted if questions arise regarding this report

E. A. CUTRIGHT

Telephone No. and Area code

(304) 755-3341

Certification - The undersigned company and the official executing this certification in its behalf hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Name of company

MONSANTO COMPANY

Signature of authorized official

Address of company

800 N. LINDBERGH BLVD.
ST. LOUIS, MO.

Title

Date

The U.S. Code, Title 18 (Crimes and Criminal Procedure), Section 1001, makes it a criminal offense to make a willfully false statement to any department or agency of the United States as to any matter within its jurisdiction. The individual company information reported on this form is for use in defense mobilization activities. The unauthorized publication or disclosure of individual company information by Government personnel is prohibited by law, and such personnel having access thereto are subject to fine and imprisonment for unauthorized disclosure.

Please complete form before signing certification

USCOMM-DC 33270-107

ALN 01002313

Section I - CAPACITY - INTERMEDIATES AND DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid, (2) "Orange," (3) tetrachlorobenzene, (4) trichlorophenol, (5) picloram, and (6) Tordon 101[®]. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☒

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid	lbs.	
2	2,4,5-Trichlorophenoxy acetic acid	lbs.	
3	"Orange" 1 2	gals.	
4	Tetrachlorobenzene	lbs.	
5	Trichlorophenol, technical grade ³	lbs.	
6	Trichlorophenol ⁴	lbs.	
7	Picloram	lbs.	
8	Tordon 101 [®] 5	gals.	

9. Is same equipment used to produce "trichlorophenol, technical grade," and "trichlorophenol" except for additional processing required on the higher grade material. ☐ Yes ☐ No

Section II - CAPACITY - DEFOLIANTS - This section is to be completed by producers of (1) 2, 4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, or monochloroacetic acid, and/or 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, acetic acid, or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid and (2) "Orange" or Alternate to "Orange." (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☐

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid, salts	lbs. ⁶	
2	2,4-Dichlorophenoxy acetic acid, esters	lbs. ⁶	
3	2,4,5-Trichlorophenoxy acetic acid, salts	lbs. ⁶	
4	2,4,5-Trichlorophenoxy acetic acid, esters	lbs. ⁶	
5	"Orange" 1 2	gals.	
6	Alternate to "Orange" 2 7	gals.	

7. Is the same equipment used to produce esters of 2,4-D and 2,4,5-T? ☐ Yes ☐ No

8. Is there any limitation on the type of esters which the equipment can produce? ☐ Yes ☐ No
If response is "Yes," provide explanation.

Section III - ADDITIONAL CAPACITY, UNDER CONSTRUCTION OR AUTHORIZED - INTERMEDIATES AND DEFOLIANTS
(See last page for footnotes.)

Item No.	Item (a)	Unit (b)	Additional capacity (c)	Approximate completion date (d)
1	2, 4-D	lbs. ⁶	—	—
2	2,4,5-T	lbs. ⁶	NONE	002104
3	"Orange" 1 2	gals.	—	—
4	Alternate to "Orange" 2 7	gals.	—	—

ALN 01002314

5	Tetrachlorobenzene	lbs.	_____	_____
6	Trichlorophenol, technical grade ³	lbs.	_____	_____
7	Trichlorophenol ⁴	lbs.	_____	_____
8	Picloram	lbs.	_____	_____
9	Tordon 101 ^(B) s	gals.	_____	_____

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,4,5-T and 2,4,5-T esters and salts. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item (a)	Production (b)	Receipts		Consumption		Shipments ⁸		End of month stocks (i)
			Domestic sources (c)	Foreign sources (d)	"Orange" (e)	Other products (f)	To military ⁹ defoliant producers (g)	To others (h)	
1	TCB		535,580		613,260				351,092
2	TCP, ³ tech.								
3	TCP ⁴								

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101^(B). (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments ⁸		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D	lbs. ⁴						
2	2,4,5-T	lbs. ⁶	582,870					160,300
3	"Orange" ¹	gals.						
4	Picloram	lbs.		10	10	10	10	10
5	Tordon 101 ^(B)	gals.						

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments ⁸		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
	Other salts or esters (Identify):							
6		lbs. ⁶						
7		lbs. ⁶						
8		lbs. ⁶						
9		lbs. ⁶						
10	"Orange" ¹	gals.						
11	Alternate to "Orange" ⁷	gals.						

002105

Please continue on reverse

USCOMM-DC J3370-P67

ALN 01002315

Section VIII - WORK SCHEDULE

Footnotes:

"D.C. 250" - designation assigned to military defoliant formulation of butyl ester of 2,4-D and 2,4,5-T.

²Based on capacity to produce 2,4,5-T component and regardless of availability of 2,4-D component.

*Triphenylbenzene, technical grade - designation assigned to TCP used in production of 2,4,5-T, 2,4,5-T esters and salts, "Orange", or Alternate to "Orange". It can also be used to produce other products.

*Trichlorophenol - Used to denote a higher grade material than that designated trichlorophenol, technical grade.

Based on capacity to produce picloram.

g. l. i. l. equivalent.

Alternate to "Orange" - designation assigned to military defoliant formulation of butyl ester of 2,4-D and iso-octyl ester of 2,4,5-T.

⁴Shipments on rated orders to producers of military defoliants.

Include preform in any form except in Tordon 101 [®], which is to be included in items 5 (d), 5 (e), 5 (f), 5 (g), and 5 (h), Section A.

Section 1.
Honorated orders.

Section IX - REMARKS (Attach additional sheets if necessary.)

TCB:

EEG INVT. 428,772

RECEIVED 544.080

LESS REELS 2500.

NET RECEIVED 535,580

Total To Acct. For 964,352

LESS USAGE 613,260

ENDING INVT.. 351,072

2,4,5-T :

BEG. INVT. 140,170

NET PRODUCTION 582,870

TOTAL TO ACCT. FOR 723,040

LESS SHIPMENTS 562,740

ENDING INVT. 160,300

ALL MATERIAL SHIPPED IN NOVEMBER WENT TO 002106
MONSANTO'S W. G. KUMMRICH PLANT AT SAUGET, ILL.
FOR PROCESSING INTO ORANGE BAND

This report is required under Section 705 of the Defense Production Act of 1950, as amended.		BUDGET BUREAU NO. 41-12402 APPROVAL EXPIRES JUNE 30, 1970	
FORM BDSAF-771 (6-10-67) U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS		1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below) MANSANTO COMPANY 800 N. LINDBERGH BLVD. ST. LOUIS, MO.	
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544			
2. Month and year reported OCTOBER 1968		3. Plant name NITRO	
4. Plant location (See Instructions) NW OF NITRO ON VISCOSSE ROAD IN PUTNAM COUNTY, STATE OF WEST VIRGINIA			
INSTRUCTIONS			
<p>Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future.</p> <p>File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process.</p> <p>Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1.5 mi. Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilford County, Maryland, or on State Route 29, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware.</p> <p>Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable.</p> <p>Sections II and III - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section II. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section III. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions:</p> <ol style="list-style-type: none"> 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak operations. 		<p>Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report.</p> <p>Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported.</p> <p>Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency.</p> <p>Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants.</p> <p>Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and picloram included in military defoliants shipped in the month is required.</p>	
Name of person who should be contacted if questions arise regarding this report E. A. CUTRIGHT		Telephone No. and Area code (314) 755-3341	
Certification - The undersigned company and the official executing this certification in its behalf hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.			
Name of company MANSANTO COMPANY		Signature of authorized official	
Address of company 800 N. LINDBERGH BLVD. ST. LOUIS, MO.		Title	Date
The U.S. Code, Title 18 (Crimes and Criminal Procedure), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States or to any officer within its jurisdiction. The individual company information reported on this form is for use in defense mobilization activities. The unauthorized publication or disclosure of individual company information is prohibited by law, and such personnel having access thereto are subject to fine and imprisonment for unauthorized disclosure.			

Please complete form before signing certification

USCOMM-DC 33370-667

ALN 01002317

Section I - CAPACITY - INTERMEDIATES - DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid, (2) "Orange," (3) tetrachlorobenzene, (4) trichlorophenol, (5) picloram, and (6) Tordon 101[®]. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☒

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid	lbs.	
2	2,4,5-Trichlorophenoxy acetic acid	lbs.	
3	"Orange" ^{1 2}	gals.	
4	Tetrachlorobenzene	lbs.	
5	Trichlorophenol, technical grade ³	lbs.	
6	Trichlorophenol ⁴	lbs.	
7	Picloram	lbs.	
8	Tordon 101 ^{® 5}	gals.	

9. Is same equipment used to produce "trichlorophenol, technical grade," and "trichlorophenol" except for additional processing required on the higher grade material. ☐ Yes ☐ No

Section II - CAPACITY - DEFOLIANTS - This section is to be completed by producers of (1) 2, 4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, or monochloroacetic acid, and/or 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, acetic acid, or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid and (2) "Orange" or Alternate to "Orange." (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☐

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid, salts	lbs. ⁶	
2	2,4-Dichlorophenoxy acetic acid, esters	lbs. ⁶	
3	2,4,5-Trichlorophenoxy acetic acid, salts	lbs. ⁶	
4	2,4,5-Trichlorophenoxy acetic acid, esters	lbs. ⁶	
5	"Orange" ^{1 2}	gals.	
6	Alternate to "Orange" ^{2 7}	gals.	

7. Is the same equipment used to produce esters of 2,4-D and 2,4,5-T? ☐ Yes ☐ No

8. Is there any limitation on the type of esters which the equipment can produce? ☐ Yes ☐ No
If response is "Yes," provide explanation.

Section III - ADDITIONAL CAPACITY, UNDER CONSTRUCTION OR AUTHORIZED - INTERMEDIATES AND DEFOLIANTS
(See last page for footnotes.)

Item No.	Item (a)	Unit (b)	Additional capacity (c)	Approximate completion date (d)
1	2, 4-D	lbs. ⁶	—	062108
2	2,4,5-T	lbs. ⁶	NONE	—
3	"Orange" ^{1 2}	gals.	—	—
4	Alternate to "Orange" ^{2 7}	gals.	—	—

ALN 01002318

6	Trichlorophenol, technical grade ⁵	lbs.	—	—
7	Trichlorophenol ⁴	lbs.	—	—
8	Picloram	lbs.	—	—
9	Tordon 101 ^(R) 5	gals.	—	—

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,4,5-T and 2,4,5-T esters and salts. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item	Production	Receipts		Consumption		Shipments ⁸		End of month stocks
			Domestic sources	Foreign sources	"Orange"	Other products	To military ⁹ defoliant producers	To others	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	
1	TCB	540,560			437,729				423,772
2	TCP, ³ tech.								
3	TCP ⁴								

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101^(R). (See last page for footnotes).

Item No.	Item	Unit	Production	Receipts		Non-military shipments ⁸		End of month stocks
				Domestic sources	Foreign sources	Domestic	Exports	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	
1	2,4-D	lbs. ⁶						
2	2,4,5-T	lbs. ⁶	147,725					147,725
3	"Orange" ¹	gals.						
4	Picloram	lbs.		10	10	10	10	10
5	Tordon 101 ^(R)	gals.						

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item	Unit	Production	Receipts		Non-military shipments ⁸		End of month stocks
				Domestic sources	Foreign sources	Domestic	Exports	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
	Other salts or esters (identify):							
6		lbs. ⁶						
7		lbs. ⁶						
8		lbs. ⁶						
9		lbs. ⁶						
10	"Orange" ¹	gals.						
11	Alternate to "Orange" ¹⁷	gals.						

002109

2	Technical material contained in total quantity of above material shipped to DoD.		4	Technical material contained in total quantity of above material shipped to DoD.	
	Item (a)	Quantity (lbs.) (b)		Item (a)	Quantity (lbs.) (b)
	2,4-D			2,4-D	
	2,4,5-T			Picloram	

	Hours per shift	Shifts per day	Days per week
a. Work schedule for previous month	8	3	7
b. Anticipated work schedule required for maximum production	8	3	7

- 1 "Orange" - designation assigned to military defoliant formulation of butyl ester of 2,4-D and 2,4,5-T.
- 2 Based on capacity to produce 2,4,5-T component and regardless of availability of 2,4-D component.
- 3 Trichlorophenol, technical grade - designation assigned to TCP used in production of 2,4,5-T, 2,4,5-T esters and salts, "Orange", or Alternate to "Orange". It can also be used to produce other products.
- 4 Trichlorophenol - Used to denote a higher grade material than that designated trichlorophenol, technical grade.
- 5 Based on capacity to produce picloram.
- 6 Acid equivalent.
- 7 Alternate to "Orange" - designation assigned to military defoliant formulation of butyl ester of 2,4-D and iso-octyl ester of 2,4,5-T.
- 8 Include transfers within the company, except material transferred to another location to be incorporated into military defoliants.
- 9 Shipments on rated orders to producers of military defoliants.
- 10 Include picloram in any term except in Tordon 101 ®, which is to be included in items 5 (d), 5 (e), 5 (f), 5 (g), and 5 (h), Section V.
- 11 On rated orders.

NOTE SECTION III:		NOTE SECTION IV:	
TCD		- 4,5-T	
LEG. INVT	325,441	LEG. INVT	135,450
WARRANTY	5,177	NET PRO-DATION	4471.5
- DUES	1,100		
NET RECEIVED	329,368	TOTAL T. ACCT. F.R.	133,513
TOTAL T. ACCT. F.R.	329,368	LESS SHIPMENTS	470,415
LEG. WARE	427,721	ENDING INVT	140,110
ENDING INVT.	425,112		

(5,000 TO 160 WERE SHIPPED TO CUSTOMERS, REMAINDER WENT TO ALUMINUM'S W & KRAMERICH PLANT AT DAUGHERT, ILL. FOR PROCESSING INTO CHANCE BAND.

002110

This report is required under Section 103 of the Defense Production Act of 1950, as amended.

BUDGET BUREAU NO. 41-K-402
APPROVAL EXPIRES JUNE 30, 1970

FORM BDSAF-771 18-10-07 U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS		1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below) MONSANTO COMPANY 900 N. LINDBERGH BLVD. ST. LOUIS, MO.	
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544		3. Plant name NITRO	
2. Month and year reported SEPTEMBER 1968		4. Plant location (See Instructions) NW OF NITRO ON VISCOSSE ROAD IN PUTNAM COUNTY, STATE OF WEST VIRGINIA	
<p align="center">INSTRUCTIONS</p> <p>Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future.</p> <p>File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process.</p> <p>Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1281 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilford County, Maryland, or on State Route 29, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware.</p> <p>Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable.</p> <p>Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions:</p> <ol style="list-style-type: none"> 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak operations. <p>Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report.</p> <p>Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported.</p> <p>Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency.</p> <p>Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants.</p> <p>Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and picloram included in military defoliants shipped in the month is required.</p>			
Name of person who should be contacted if questions arise regarding this report E. A. CUTRIGHT		Telephone No. and Area code (314) 755-3341	
Certification - The undersigned company and the official executing this certification in its behalf hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.			
Name of company MONSANTO COMPANY		Signature of authorized official 002111	
Address of company 900 N. LINDBERGH BLVD. ST. LOUIS, MO.		Title 002111	
<p>The U.S. Code, Title 18 (Crimes and Criminal Procedure), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction. The individual company information reported on this form is for use in defense mobilization activities. The unauthorized publication or disclosure of individual company information by Government personnel is prohibited by law, and such personnel having access thereto are subject to fine and imprisonment for unauthorized disclosure.</p>			

Please complete form before signing certification

USCOMM-DC 33370-1067

ALN 01002321

Section I - CAPACITY - INTERMEDIATES AND DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid, (2) "Orange," (3) tetrachlorobenzene, (4) trichlorophenol, (5) picloram, and (6) Tordon 101[®]. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☒

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid	lbs.	
2	2,4,5-Trichlorophenoxy acetic acid	lbs.	
3	"Orange" ^{1 2}	gals.	
4	Tetrachlorobenzene	lbs.	
5	Trichlorophenol, technical grade ³	lbs.	
6	Trichlorophenol ⁴	lbs.	
7	Picloram	lbs.	
8	Tordon 101 ^{® 5}	gals.	

9. Is same equipment used to produce "trichlorophenol, technical grade," and "trichlorophenol" except for additional processing required on the higher grade material. ☐ Yes ☐ No

Section II - CAPACITY - DEFOLIANTS - This section is to be completed by producers of (1) 2, 4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, or monochloroacetic acid, and/or 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, acetic acid, or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid and (2) "Orange" or Alternate to "Orange." (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☐

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid, salts	lbs. ⁶	
2	2,4-Dichlorophenoxy acetic acid, esters	lbs. ⁶	
3	2,4,5-Trichlorophenoxy acetic acid, salts	lbs. ⁶	
4	2,4,5-Trichlorophenoxy acetic acid, esters	lbs. ⁶	
5	"Orange" ^{1 2}	gals.	
6	Alternate to "Orange" ^{2 7}	gals.	

7. Is the same equipment used to produce esters of 2,4-D and 2,4,5-T? ☐ Yes ☐ No

8. Is there any limitation on the type of esters which the equipment can produce? ☐ Yes ☐ No
If response is "Yes," provide explanation.

Section III - ADDITIONAL CAPACITY, UNDER CONSTRUCTION OR AUTHORIZED - INTERMEDIATES AND DEFOLIANTS
(See last page for footnotes.)

Item No.	Item (a)	Unit (b)	Additional capacity (c)	Approximate completion date
1	2, 4-D	lbs. ⁶	—	002112
2	2,4,5-T	lbs. ⁶	N/A	—
3	"Orange" ^{1 2}	gals.	—	—
4	Alternate to "Orange" ^{2 7}	gals.	—	—

ALN 01002322

6	Trichlorophenol, technical grade ³	lbs.	—	—
7	Trichlorophenol ⁴	lbs.	—	—
8	Picloram	lbs.	—	—
9	Tordon 101 (R) ⁵	gals.	—	—

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,4,5-T and 2,4,5-T esters and salts. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item (a)	Production (b)	Receipts		Consumption		Shipments ⁶		End of month stocks (i)
			Domestic sources (c)	Foreign sources (d)	"Orange" (e)	Other products (f)	To military ⁹ defoliant producers (g)	To others (h)	
1	TCB	620,160		644,812					325,941
2	TCP, ³ tech.								
3	TCP ⁴								

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101 (R). (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments ⁶		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D	lbs. ⁶						
2	2,4,5-T	lbs. ⁶	159,995					195,880
3	"Orange" ¹	gals.						
4	Picloram	lbs.		10	10	10	10	10
5	Tordon 101 (R)	gals.						

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments ⁶		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
	Other salts or esters (Identify):							
6		lbs. ⁶						
7		lbs. ⁶						
8		lbs. ⁶						
9		lbs. ⁶						
10	"Orange" ¹	gals.						
11	Alternate to "Orange" ¹⁷	gals.						

002113

Form BDSAF-771 (16-10-67) U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION		APPROVAL EXPIRES JUNE 30, 1970	
INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS		1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below)	
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544		MONSANTO COMPANY 300 N. LINDBERGH BLVD ST. LOUIS, MO.	
2. Month and year reported AUGUST 1968		3. Plant name NITRO	
4. Plant location (See Instructions) NW OF NITRO ON VISCOSSE ROAD IN PUTNAM COUNTY STATE OF WEST VIRGINIA			
<p align="center">INSTRUCTIONS</p> <p>Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future.</p> <p>File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process.</p> <p>Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1281 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilford County, Maryland, or on State Route 29, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware.</p> <p>Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable.</p> <p>Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions:</p> <ol style="list-style-type: none"> 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak operations. <p>Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report.</p> <p>Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported.</p> <p>Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency.</p> <p>Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants.</p> <p>Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and picloram included in military defoliants shipped in the month is required.</p>			
Name of person who should be contacted if questions arise regarding this report E. A. CUTRIGHT		Telephone No. and Area code (314) 755-3341	
Certification - The undersigned company and the official executing this certification in its behalf hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.			
Name of company MONSANTO COMPANY		Signature of authorized official	
Address of company 300 N. LINDBERGH BLVD. ST. LOUIS, MO.		Title	Date
<p>The U.S. Code, Title 18 (Crimes and Criminal Procedure), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction. The individual company information reported on this form is for use in defense mobilization activities. The unauthorized publication or disclosure of individual company information by Government personnel is prohibited by law, and such personnel having access thereto are subject to fine and imprisonment for unauthorized disclosure.</p> <p align="right">002715</p>			

Please complete form before signing certification

USCMM 100-10-1067

ALN 01002325

Section I - CAPACITY - INTERMEDIATES AND DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid, (2) "Orange," (3) tetrachlorobenzene, (4) trichlorophenol, (5) picloram, and (6) Tordon 101⁽⁹⁾. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☒

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid	lbs.	
2	2,4,5-Trichlorophenoxy acetic acid	lbs.	
3	"Orange" ^{1 2}	gals.	
4	Tetrachlorobenzene	lbs.	
5	Trichlorophenol, technical grade ³	lbs.	
6	Trichlorophenol ⁴	lbs.	
7	Picloram	lbs.	
8	Tordon 101 ^{(9) 5}	gals.	

9. Is same equipment used to produce "trichlorophenol, technical grade," and "trichlorophenol" except for additional processing required on the higher grade material. ☐ Yes ☐ No

Section II - CAPACITY - DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, or monochloroacetic acid, and/or 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, acetic acid, or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid and (2) "Orange" or Alternate to "Orange." (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☐

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid, salts	lbs. ⁶	
2	2,4-Dichlorophenoxy acetic acid, esters	lbs. ⁶	
3	2,4,5-Trichlorophenoxy acetic acid, salts	lbs. ⁶	
4	2,4,5-Trichlorophenoxy acetic acid, esters	lbs. ⁶	
5	"Orange" ^{1 2}	gals.	
6	Alternate to "Orange" ^{2 7}	gals.	

7. Is the same equipment used to produce esters of 2,4-D and 2,4,5-T? ☐ Yes ☐ No

8. Is there any limitation on the type of esters which the equipment can produce? ☐ Yes ☐ No
If response is "Yes," provide explanation.

Section III - ADDITIONAL CAPACITY, UNDER CONSTRUCTION OR AUTHORIZED - INTERMEDIATES AND DEFOLIANTS
(See last page for footnotes.)

Item No.	Item (a)	Unit (b)	Additional capacity (c)	Approximate completion date (d)
1	2, 4-D	lbs. ⁶	—	002116
2	2,4,5-T	lbs. ⁶	NONE	—
3	"Orange" ^{1 2}	gals.	—	—
4	Alternate to "Orange" ^{2 7}	gals.	—	—

ALN 01002326

6	Trichlorophenol, technical grade ³	lbs.	—	—
7	Trichlorophenol ⁴	lbs.	—	—
8	Picloram	lbs.	—	—
9	Tordon 101 [®] 5	gals.	—	—

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,4,5-T and 2,4,5-T esters and salts. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item (a)	Production (b)	Receipts		Consumption		Shipments ⁸		End of month stocks (i)
			Domestic sources (c)	Foreign sources (d)	"Orange" (e)	Other products (f)	To military ⁹ defoliant producers (g)	To others (h)	
1	TCB		614,900		552,428				356,592
2	TCP, ³ tech.								
3	TCP ⁴								

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101[®]. (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments ⁸		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D	lbs. ⁶						
2	2,4,5-T	lbs. ⁶	647,650					544,000
3	"Orange" ¹	gals.						
4	Picloram	lbs.		10	10	10	10	10
5	Tordon 101 [®]	gals.						

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments ⁸		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
	Other salts or esters (Identify):							
6		lbs. ⁶						
7		lbs. ⁶						
8		lbs. ⁶						
9		lbs. ⁶						
10	"Orange" ¹	gals.						
11	Alternate to "Orange" ⁷	gals.						

002117

FD-302 (Rev. 5-22-64)

USCOMM-DC 33370-P67

ALN 01002328

This report is required under Section 705 of the Defense Production Act of 1950, as amended.		BUDGET BUREAU NO. 41-R2402 APPROVAL EXPIRES JUNE 30, 1970	
FORM BDSAF-771 (5-10-57) U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS		1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below) MONSANTO COMPANY 800 N. LINDBERGH BLVD. ST. LOUIS, MO.	
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544			
2. Month and year reported JULY, 1968		3. Plant name NITRO	
4. Plant location (See Instructions) NW OF NITRO ON VISCOSSE ROAD IN PUTNAM COUNTY STATE OF WEST VIRGINIA			
INSTRUCTIONS <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p>Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future.</p> <p>File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process.</p> <p>Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1281 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilford County, Maryland, or on State Route 29, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware.</p> <p>Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable.</p> <p>Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions:</p> <ol style="list-style-type: none"> 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak operations. </div> <div style="width: 48%;"> <p>Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report.</p> <p>Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months, and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported.</p> <p>Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency.</p> <p>Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants.</p> <p>Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and picloram included in military defoliants shipped in the month is required.</p> </div> </div>			
Name of person who should be contacted if questions arise regarding this report E. A. CUTRIGHT		Telephone No. and Area code (304) 755-3341	
Certification - The undersigned company and the official executing this certification in its behalf hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.			
Name of company MONSANTO COMPANY		Signature of authorized official	
Address of company 800 N. LINDBERGH BLVD ST. LOUIS, MO.		Title 002119	
The U.S. Code, Title 18 (Crimes and Criminal Procedure), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction. The individual company information reported on this form is for use in defense mobilization activities. The unauthorized publication or disclosure of individual company information by Government personnel is prohibited by law, and such personnel having access thereto are subject to fine and imprisonment for unauthorized disclosure.			

Please complete form before signing certification

US FORM DC 3370-1067

ALN 01002329

Section I - CAPACITY - INTERMEDIATES AND DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid, (2) "Orange," (3) tetrachlorobenzene, (4) trichlorophenol, (5) picloram, and (6) Tordon 101^(b). Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☒

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid	lbs.	
2	2,4,5-Trichlorophenoxy acetic acid	lbs.	
3	"Orange" ^{1 2}	gals.	
4	Tetrachlorobenzene	lbs.	
5	Trichlorophenol, technical grade ³	lbs.	
6	Trichlorophenol ⁴	lbs.	
7	Picloram	lbs.	
8	Tordon 101 ^{(b) 5}	gals.	

9. Is same equipment used to produce "trichlorophenol, technical grade," and "trichlorophenol" except for additional processing required on the higher grade material. ☐ Yes ☐ No

Section II - CAPACITY - DEFOLIANTS - This section is to be completed by producers of (1) 2, 4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, or monochloroacetic acid, and/or 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, acetic acid, or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid and (2) "Orange" or Alternate to "Orange." (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☐

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid, salts	lbs. ⁶	
2	2,4-Dichlorophenoxy acetic acid, esters	lbs. ⁶	
3	2,4,5-Trichlorophenoxy acetic acid, salts	lbs. ⁶	
4	2,4,5-Trichlorophenoxy acetic acid, esters	lbs. ⁶	
5	"Orange" ^{1 2}	gals.	
6	Alternate to "Orange" ^{2 7}	gals.	

7. Is the same equipment used to produce esters of 2,4-D and 2,4,5-T? ☐ Yes ☐ No

8. Is there any limitation on the type of esters which the equipment can produce? ☐ Yes ☐ No
If response is "Yes," provide explanation.

Section III - ADDITIONAL CAPACITY, UNDER CONSTRUCTION OR AUTHORIZED - INTERMEDIATES AND DEFOLIANTS
(See last page for footnotes.)

Item No.	Item (a)	Unit (b)	Additional capacity (c)	Approximate completion date
1	2, 4-D	lbs. ⁸		002120
2	2,4,5-T	lbs. ⁸	NONE	
3	"Orange" ^{1 2}	gals.		
4	Alternate to "Orange" ^{2 7}	gals.		

ALN 01002330

6	Trichlorophenol, technical grade ³	lbs.	—	—
7	Trichlorophenol ⁴	lbs.	—	—
8	Picloram	lbs.	—	—
9	Tordon 101 [®] 5	gals.	—	—

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,4,5-T and 2,4,5-T esters and salts. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item	Production	Receipts		Consumption		Shipments ⁸		End of month stocks
			Domestic sources	Foreign sources	"Orange" ¹	Other products	To military ⁹ defoliant producers	To others	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	
1	TCB		575,000		616,144				338,121
2	TCP, ³ tech.								
3	TCP ⁴								

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101[®]. (See last page for footnotes).

Item No.	Item	Unit	Production	Receipts		Non-military shipments ⁸		End of month stocks
				Domestic sources	Foreign sources	Domestic	Exports	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	
1	2,4-D	lbs. ⁶						
2	2,4,5-T	lbs. ⁶	625,200					71,600
3	"Orange" ¹	gals.						
4	Picloram	lbs.		10	10	10	10	10
5	Tordon 101 [®]	gals.						

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item	Unit	Production	Receipts		Non-military shipments ⁸		End of month stocks
				Domestic sources	Foreign sources	Domestic	Exports	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
	Other salts or esters (Identify):							
6		lbs. ⁶						
7		lbs. ⁶						
8		lbs. ⁶						
9		lbs. ⁶						
10	"Orange" ¹	gals.						002121
11	Alternate to "Orange" ¹⁷	gals.						

FORM DLSA-771 (8-10-07)

Please continue on reverse

USCOMM-DC 33370-P67

ALN 01002331

This report is required under Section 70 of the Defense Production Act of 1950, as amended.		BUDGET BUREAU NO. 41-R2402 APPROVAL EXPIRES JUNE 30, 1970	
FORM BDSAF-771 (9-10-67) U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS		1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below) MONSANTO COMPANY 800 N. LINDBERGH BLVD. ST. LOUIS, Mo.	
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544		3. Plant name NITRO	
2. Month and year reported JUNE 1968			
4. Plant location (See Instructions) N.W. OF NITRO ON VISCOSSE ROAD IN PUTNAM COUNTY STATE OF WEST VIRGINIA			
INSTRUCTIONS <p>Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future.</p> <p>File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process.</p> <p>Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1281 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilford County, Maryland, or on State Route 29, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware.</p> <p>Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable.</p> <p>Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions:</p> <ol style="list-style-type: none"> 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak operations. <p>Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report.</p> <p>Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported.</p> <p>Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency.</p> <p>Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants.</p> <p>Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and picloram included in military defoliants shipped in the month is required.</p>			
Name of person who should be contacted if questions arise regarding this report E.A. CUTRIGHT		Telephone No. and Area code (304) 755-3341	
Certification - The undersigned company and the official executing this certification in its behalf hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.			
Name of company MONSANTO COMPANY		Signature of authorized official 002123	
Address of company 800 N. LINDBERGH BLVD. ST. LOUIS, Mo.		Title	Date
The U.S. Code, Title 18 (Crimes and Criminal Procedure), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction. The individual company information reported on this form is for use in defense mobilization activities. The unauthorized publication or disclosure of individual company information by Government personnel is prohibited by law, and any personnel having access thereto are subject to fine and imprisonment for unauthorized disclosure.			

Please complete form before signing certification

USCOMM-DC 31470-1067

ALN 01002333

Section I - CAPACITY - INTERMEDIATES AND DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid, (2) "Orange," (3) tetrachlorobenzene, (4) trichlorophenol, (5) picloram, and (6) Tordon 101[®]. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☒

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid	lbs.	
2	2,4,5-Trichlorophenoxy acetic acid	lbs.	
3	"Orange" ^{1 2}	gals.	
4	Tetrachlorobenzene	lbs.	
5	Trichlorophenol, technical grade ³	lbs.	
6	Trichlorophenol ⁴	lbs.	
7	Picloram	lbs.	
8	Tordon 101 ^{® 5}	gals.	

9. Is same equipment used to produce "trichlorophenol, technical grade," and "trichlorophenol" except for additional processing required on the higher grade material. ☐ Yes ☐ No

Section II - CAPACITY - DEFOLIANTS - This section is to be completed by producers of (1) 2, 4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, or monochloroacetic acid, and/or 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, acetic acid, or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid and (2) "Orange" or Alternate to "Orange." (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☐

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid, salts	lbs. ⁶	
2	2,4-Dichlorophenoxy acetic acid, esters	lbs. ⁶	
3	2,4,5-Trichlorophenoxy acetic acid, salts	lbs. ⁶	
4	2,4,5-Trichlorophenoxy acetic acid, esters	lbs. ⁶	
5	"Orange" ^{1 2}	gals.	
6	Alternate to "Orange" ^{2 7}	gals.	

7. Is the same equipment used to produce esters of 2,4-D and 2,4,5-T? ☐ Yes ☐ No

8. Is there any limitation on the type of esters which the equipment can produce? ☐ Yes ☐ No
If response is "Yes," provide explanation.

002121

Section III - ADDITIONAL CAPACITY, UNDER CONSTRUCTION OR AUTHORIZED - INTERMEDIATES AND DEFOLIANTS
(See last page for footnotes.)

Item No.	Item (a)	Unit (b)	Additional capacity (c)	Approximate completion date (d)
1	2, 4-D	lbs. ⁶	—	—
2	2,4,5-T	lbs. ⁶	NONE	—
3	"Orange" ^{1 2}	gals.	—	—
4	Alternate to "Orange" ^{2 7}	gals.	—	—

ALN 01002334

6	Trichlorophenol, technical grade ³	lbs.	—	—
7	Trichlorophenol ⁴	lbs.	—	—
8	Picloram	lbs.	—	—
9	Tordon 101 [®] 5	gals.	—	—

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,4,5-T and 2,4,5-T esters and salts. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item	Production	Receipts		Consumption		Shipments ⁶		End of month stocks
			Domestic sources	Foreign sources	"Orange"	Other products	To military ⁹ defoliant producers	To others	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	
1	TCB		48,320		58,632				22,265
2	TCP, ³ tech.								
3	TCP ⁴								

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101[®]. (See last page for footnotes).

Item No.	Item	Unit	Production	Receipts		Non-military shipments ⁶		End of month stocks
				Domestic sources	Foreign sources	Domestic	Exports	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	
1	2,4-D	lbs. ⁶						
2	2,4,5-T	lbs. ⁶	601,790					103,862
3	"Orange" ¹	gals.						
4	Picloram	lbs.		10	10	10	10	10
5	Tordon 101 [®]	gals.						

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item	Unit	Production	Receipts		Non-military shipments ⁶		End of month stocks
				Domestic sources	Foreign sources	Domestic	Exports	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
	Other salts or esters (Identify):							
6		lbs. ⁶						
7		lbs. ⁶						
8		lbs. ⁶						
9		lbs. ⁶						602125
10	"Orange" ²	gals.						
11	Alternate to "Orange" ⁷	gals.						

FOIA b(7)(C)-221 (b)(7)(C)

Please complete certification on face of form

USCOMM-DC 333714-P53

This report is required under Section 705 of the Defense Production Act of 1950, as amended.		BUDGET BUREAU NO. 41-K2403 APPROVAL EXPIRES JUNE 30, 1970	
FORM BDSAF-771 (8-10-67) U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS		1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below) MONSANTO COMPANY 800 N. LINDBERGH BLVD. ST. LOUIS, Mo.	
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544		3. Plant name NITRO	
2. Month and year reported MAY 1968			
4. Plant location (See Instructions) N.W. of NITRO ON VISCOSE ROAD IN PUTNAM COUNTY STATE OF WEST VIRGINIA			
INSTRUCTIONS Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future. File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process. Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1281 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilford County, Maryland, or on State Route 29, 2.4 miles Southwest of Glenbrook, Maynard County, Delaware. Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable. Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions: 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak operations. Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report. Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported. Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency. Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants. Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and picloram included in military defoliants shipped in the month is required.			
Name of person who should be contacted if questions arise regarding this report E. A. CURTIS		Telephone No. and Area code (304) 755-3341	
Certification - The undersigned company and the official executing this certification in its behalf hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.			
Name of company MONSANTO CO.		Signature of authorized official	
Address of company 800 N LINDBERGH BLVD ST. LOUIS, Mo.		Title	Date
The U.S. Code, Title 18 (Crimes and Criminal Procedure), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction. The individual company information reported on this form is for use in defense mobilization activities. The unauthorized publication or disclosure of individual company information by Government personnel is prohibited by law, and such personnel having access thereto are subject to fine and imprisonment for such offense.			

Please complete form before signing certification

USCOMM-DC 33470-M67

ALN 01002337

Section I - CAPACITY - INTERMEDIATES AND DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid, (2) "Orange," (3) tetrachlorobenzene, (4) trichlorophenol, (5) picloram, and (6) Tordon 101[®]. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☒

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid	lbs.	
2	2,4,5-Trichlorophenoxy acetic acid	lbs.	
3	"Orange" 1 2	gals.	
4	Tetrachlorobenzene	lbs.	
5	Trichlorophenol, technical grade ³	lbs.	
6	Trichlorophenol ⁴	lbs.	
7	Picloram	lbs.	
8	Tordon 101 [®] 5	gals.	

9. Is same equipment used to produce "trichlorophenol, technical grade," and "trichlorophenol" except for additional processing required on the higher grade material. ☐ Yes ☐ No

Section II - CAPACITY - DEFOLIANTS - This section is to be completed by producers of (1) 2, 4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, or monochloroacetic acid, and/or 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, acetic acid, or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid and (2) "Orange" or Alternate to "Orange." (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☐

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid, salts	lbs. ⁶	
2	2,4-Dichlorophenoxy acetic acid, esters	lbs. ⁶	
3	2,4,5-Trichlorophenoxy acetic acid, salts	lbs. ⁶	
4	2,4,5-Trichlorophenoxy acetic acid, esters	lbs. ⁶	
5	"Orange" 1 2	gals.	
6	Alternate to "Orange" 2 7	gals.	

7. Is the same equipment used to produce esters of 2,4-D and 2,4,5-T? ☐ Yes ☐ No

8. Is there any limitation on the type of esters which the equipment can produce? ☐ Yes ☐ No

If response is "Yes," provide explanation.

Section III - ADDITIONAL CAPACITY, UNDER CONSTRUCTION OR AUTHORIZED - INTERMEDIATES AND DEFOLIANTS
(See last page for footnotes.)

Item No.	Item (a)	Unit (b)	Additional capacity (c)	Approximate completion date (d)
1	2, 4-D	lbs. ⁶	-	-
2	2,4,5-T	lbs. ⁶	NONE	002128
3	"Orange" 1 2	gals.	-	-
4	Alternate to "Orange" 2 7	gals.	-	-

ALN 01002338

6	Trichlorophenol, technical grade ³	lbs.		
7	Trichlorophenol ⁴	lbs.		
8	Picloram	lbs.		
9	Tordon 101 [®] 5	gals.		

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,4,5-T and 2,4,5-T esters and salts. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item	Production	Receipts		Consumption		Shipments ⁸		End of month stocks
			Domestic sources	Foreign sources	"Orange"	Other products	To military ⁹ defoliant producers	To others	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
1	TCB		423,740		133,071	507,611			269,577
2	TCP, ³ tech.								
3	TCP ⁴								

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101[®]. (See last page for footnotes).

Item No.	Item	Unit	Production	Receipts		Non-military shipments ⁸		End of month stocks
				Domestic sources	Foreign sources	Domestic	Exports	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	2,4-D	lbs. ⁶						
2	2,4,5-T	lbs. ⁶	670,220					51,980
3	"Orange" ¹	gals.						
4	Picloram	lbs.		10	10	10	10	10
5	Tordon 101 [®]	gals.						

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item	Unit	Production	Receipts		Non-military shipments ⁸		End of month stocks
				Domestic sources	Foreign sources	Domestic	Exports	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
	Other salts or esters (Identify):							
6		lbs. ⁶						
7		lbs. ⁶						
8		lbs. ⁶						
9		lbs. ⁶						
10	"Orange" ¹ 2	gals.						
11	Alternate to "Orange" ¹ 7	gals.						

002129

DD FORM 1115-AP-771 (8-10-87)

Please continue on reverse

USCOMM-PC 33370-1087

ALN 01002339

2	Technical material contained in total quantity of above material shipped to DoD.		4	Technical material contained in total quantity of above material shipped to DoD.	
	Item (a)	Quantity (lbs. ⁶) (b)		Item (a)	Quantity (lbs. ⁶) (b)
	2,4-D			2,4-D	
	2,4,5-T			Picloram	

	Hours per shift	Shifts per day	Days per week
a. Work schedule for previous month	8	3	7
b. Anticipated work schedule required for maximum production	6	3	7

1 "Orange" - designation assigned to military defoliant formulation of butyl ester of 2,4-D and 2,4,5-T.
 2 Based on capacity to produce 2,4,5-T component and regardless of availability of 2,4-D component.
 3 Trichlorophenol, technical grade - designation assigned to TCP used in production of 2,4,5-T, 2,4,5-T esters and salts, "Orange", or Alternate to "Orange". It can also be used to produce other products.
 4 Trichlorophenol - Used to denote a higher grade material than that designated trichlorophenol, technical grade.
 5 Based on capacity to produce picloram.
 6 Acid equivalent.
 7 Alternate to "Orange" - designation assigned to military defoliant formulation of butyl ester of 2,4-D and iso-octyl ester of 2,4,5-T.
 8 Include transfers within the company, except material transferred to another location to be incorporated into military defoliants.
 9 Shipments on rated orders to producers of military defoliants.
 10 Include picloram in any form except in Tordon 101 [®], which is to be included in items 5 (d), 5 (c), 5 (f), 5 (g), and 5 (h), Section V.
 11 On rated orders.

NOTE SECTION III

TCB		NOTE SECTION IV	
BEG. BALANCE	486,519	25ST BEG. INV.	78,890
REC. 437,940		PRODUCED	<u>670,210</u>
RETURNS <u>19,200</u>		TOTAL TO ACC.	<u>749,110</u>
NET REC.	<u>423,740</u>	SHIPPED	<u>697,130</u>
TOTAL TO ACC.	910,259	ENDING INV.	<u>51,980</u>
USED	<u>640,684</u>		
ENDING INVENTORY	<u>269,577</u>		

380,190 lbs were shipped to outside sales. Remainder of material (316,940) was shipped to Monsanto's WGA Plant at Sargent, Ill for further processing.

002130

TOTAL SHIP 697,130
CHARGE 145,000
SALES 552,130

This report is required under Section 1001 of the Defense Production Act of 1950, as amended.		BUDGET BUREAU NO. 41-R2402 APPROVAL EXPIRES JUNE 30, 1970	
FORM BDSAF-771 15-10-571 U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS		1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below) MONSANTO COMPANY 800 N. LINDBERGH BLVD. ST. LOUIS Mo.	
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544			
2. Month and year reported APRIL 1968		3. Plant name NITRO	
4. Plant location (See Instructions) NW of NITRO on Viscose Road in PUTNAM COUNTY STATE of WEST VIRGINIA.			
INSTRUCTIONS <p>Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future.</p> <p>File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process.</p> <p>Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1281 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilford County, Maryland, or on State Route 29, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware.</p> <p>Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable.</p> <p>Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions:</p> <ol style="list-style-type: none"> 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak operations. <p>Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report.</p> <p>Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported.</p> <p>Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency.</p> <p>Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants.</p> <p>Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and picloram included in military defoliants shipped in the month is required.</p>			
Name of person who should be contacted if questions arise regarding this report E. A. CUTRIGHT		Telephone No. and Area code (304) 755-8341	
Certification - The undersigned company and the official executing this certification in its behalf hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.			
Name of company MONSANTO COMPANY		Signature of authorized official	
Address of company 800 N. LINDBERGH BLVD. ST. LOUIS Mo.		Title	Date
The U.S. Code, Title 18 (Crimes and Criminal Procedure), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States in any matter within its jurisdiction. The individual company information reported on this form is for use in defense mobilization activities. The unauthorized publication or disclosure of individual company information by Government personnel is prohibited by law, and any person so violating is subject to fine and imprisonment for unauthorized disclosure.			

Please complete form before signing certification

002131

ALN 01002341

Section I - CAPACITY - INTERMEDIATES AND DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid, (2) "Orange," (3) tetrachlorobenzene, (4) trichlorophenol, (5) picloram, and (6) Tordon 101[®]. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☒

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid	lbs.	
2	2,4,5-Trichlorophenoxy acetic acid	lbs.	
3	"Orange" ^{1 2}	gals.	
4	Tetrachlorobenzene	lbs.	
5	Trichlorophenol, technical grade ³	lbs.	
6	Trichlorophenol ⁴	lbs.	
7	Picloram	lbs.	
8	Tordon 101 ^{® 5}	gals.	

9. Is same equipment used to produce "trichlorophenol, technical grade," and "trichlorophenol" except for additional processing required on the higher grade material. ☐ Yes ☐ No

Section II - CAPACITY - DEFOLIANTS - This section is to be completed by producers of (1) 2, 4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, or monochloroacetic acid, and/or 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, acetic acid, or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid and (2) "Orange" or Alternate to "Orange." (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☐

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid, salts	lbs. ⁶	
2	2,4-Dichlorophenoxy acetic acid, esters	lbs. ⁶	
3	2,4,5-Trichlorophenoxy acetic acid, salts	lbs. ⁶	
4	2,4,5-Trichlorophenoxy acetic acid, esters	lbs. ⁶	
5	"Orange" ^{1 2}	gals.	
6	Alternate to "Orange" ^{2 7}	gals.	

7. Is the same equipment used to produce esters of 2,4-D and 2,4,5-T? ☐ Yes ☐ No

8. Is there any limitation on the type of esters which the equipment can produce? ☐ Yes ☐ No
If response is "Yes," provide explanation.

Section III - ADDITIONAL CAPACITY, UNDER CONSTRUCTION OR AUTHORIZED - INTERMEDIATES AND DEFOLIANTS
(See last page for footnotes.)

Item No.	Item (a)	Unit (b)	Additional capacity (c)	Approximate completion date (d)
1	2, 4-D	lbs. ⁶	—	—
2	2,4,5-T	lbs. ⁶	NONE	—
3	"Orange" ^{1 2}	gals.	—	002132
4	Alternate to "Orange" ^{2 7}			

ALN 01002342

6	Trichlorophenol, technical grade ³	lbs.	—	—
7	Trichlorophenol ⁴	lbs.	—	—
8	Picloram	lbs.	—	—
9	Tordon 101 ^(R) 5	gals.	—	—

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,4,5-T and 2,4,5-T esters and salts. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item (a)	Production (b)	Receipts		Consumption		Shipments ⁸		End of month stocks (i)
			Domestic sources (c)	Foreign sources (d)	"Orange" (e)	Other products (f)	To military ⁹ defoliant producers (g)	To others (h)	
1	TCB		731,600			593,133			466,519
2	TCP, ³ tech.								
3	TCP ⁴								

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101^(R). (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments ⁸		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D	lbs. ⁶						
2	2,4,5-T	lbs. ⁶	606050					78,890
3	"Orange" ¹	gals.						
4	Picloram	lbs.		10	10	10	10	10
5	Tordon 101 ^(R)	gals.						

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments ⁸		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
6	Other salts or esters (Identify):	lbs. ⁶						
7		lbs. ⁶						
8		lbs. ⁶						
9		lbs. ⁶						
10	"Orange" ¹	gals.						002133
11	Alternate to "Orange" ¹⁷	gals.						

This report is required under Section 705 of the Defense Production Act of 1950, as amended.		BUDGET BUREAU NO. 41-R2401 APPROVAL EXPIRES JUNE 30, 1970	
FORM BDSAF-771 18-10 671 U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS		1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below) MONSANTO COMPANY 800 N. LINDBERGH BLVD ST. LOUIS, MO.	
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544		3. Plant name NITRO	
2. Month and year reported MARCH 1968			
4. Plant location (See Instructions) NW of NITRO ON VISCOSE ROAD IN PUTNAM COUNTY STATE OF WEST VIRGINIA			
INSTRUCTIONS <p>Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future.</p> <p>File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process.</p> <p>Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1291 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilford County, Maryland, or on State Route 29, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware.</p> <p>Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable.</p> <p>Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions:</p> <ol style="list-style-type: none"> 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak operations. <p>Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report.</p> <p>Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported.</p> <p>Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency.</p> <p>Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants.</p> <p>Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and picloram included in military defoliants shipped in the month is required.</p>			
Name of person who should be contacted if questions arise regarding this report E. A. CUTRIGHT		Telephone No. and Area code (304) 755-3341	
Certification - The undersigned company and the official executing this certification in its behalf hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.			
Name of company MONSANTO COMPANY		Signature of authorized official	
Address of company 800 N. LINDBERGH BLVD ST. LOUIS, MO.		Title	Date
The U.S. Code, Title 18 (Crimes and Criminal Procedure), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction. The individual company information reported on this form is for use in defense mobilization activities. The unauthorized publication or disclosure of individual company information by Government personnel is prohibited by law, and such personnel having access thereto are subject to fine and imprisonment for unauthorized disclosure.			

Please complete form before signing certification

USCOMM-DC 33370-1067

ALN 01002345

Section I - CAPACITY - INTERMEDIATES AND DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid, (2) "Orange," (3) tetrachlorobenzene, (4) trichlorophenol, (5) picloram, and (6) Tordon 101⁽⁹⁾. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☒

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid	lbs.	
2	2,4,5-Trichlorophenoxy acetic acid	lbs.	
3	"Orange" ^{1 2}	gals.	
4	Tetrachlorobenzene	lbs.	
5	Trichlorophenol, technical grade ³	lbs.	
6	Trichlorophenol ⁴	lbs.	
7	Picloram	lbs.	
8	Tordon 101 ^{6 5}	gals.	

9. Is same equipment used to produce "trichlorophenol, technical grade," and "trichlorophenol" except for additional processing required on the higher grade material. ☐ Yes ☐ No

Section II - CAPACITY - DEFOLIANTS - This section is to be completed by producers of (1) 2, 4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, or monochloroacetic acid, and/or 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, acetic acid, or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid and (2) "Orange" or Alternate to "Orange." (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☐

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid, salts	lbs. ⁶	
2	2,4-Dichlorophenoxy acetic acid, esters	lbs. ⁶	
3	2,4,5-Trichlorophenoxy acetic acid, salts	lbs. ⁶	
4	2,4,5-Trichlorophenoxy acetic acid, esters	lbs. ⁶	
5	"Orange" ^{1 2}	gals.	
6	Alternate to "Orange" ^{2 7}	gals.	

7. Is the same equipment used to produce esters of 2,4-D and 2,4,5-T? ☐ Yes ☐ No

8. Is there any limitation on the type of esters which the equipment can produce? ☐ Yes ☐ No
If response is "Yes," provide explanation.

Section III - ADDITIONAL CAPACITY, UNDER CONSTRUCTION OR AUTHORIZED - INTERMEDIATES AND DEFOLIANTS
(See last page for footnotes.)

Item No.	Item (a)	Unit (b)	Additional capacity (c)	Approximate completion date (d)
1	2, 4-D	lbs. ⁶	—	—
2	2,4,5-T	lbs. ⁶	NONE	062136
3	"Orange" ^{1 2}	gals.	—	—
4	Alternate to "Orange" ^{2 7}	gals.		

ALN 01002346

6	Trichlorophenol, technical grade ³	lbs.	—	—
7	Trichlorophenol ⁴	lbs.	—	—
8	Picloram	lbs.	—	—
9	Tordon 101 ^(R) 5	gals.	—	—

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,4,5-T and 2,4,5-T esters and salts. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item (a)	Production (b)	Receipts		Consumption		Shipments ⁸		End of month stocks (i)
			Domestic sources (c)	Foreign sources (d)	"Orange" (e)	Other products (f)	To military ⁹ defoliant producers (g)	To others (h)	
1	TCB		588,540		612,281				348,052
2	TCP, ³ tech.								
3	TCP ⁴								

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101^(R). (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments ⁸		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D	lbs. ⁶						
2	2,4,5-T	lbs. ⁶	594,320					88,550
3	"Orange" ¹	gals.						
4	Picloram	lbs.		10	10	10	10	10
5	Tordon 101 ^(R)	gals.						

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments ⁸		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
	Other salts or esters (Identify):							
6		lbs. ⁶						
7		lbs. ⁶						
8		lbs. ⁶						
9		lbs. ⁶						
10	"Orange" ¹	gals.						
11	Alternate to "Orange" ¹⁷	gals.						

FORM UNCAF-771 (5-10-87)

Please continue on reverse

USCOMM-DU 33570-1167

ALN 01002347

2	Technical material contained in total quantity of above material shipped to DoD.		4	Technical material contained in total quantity of above material shipped to DoD.	
	Item	Quantity (lbs.)		Item	Quantity (lbs.)
	(a)	(b)		(a)	(b)
	2,4-D			2,4-D	
	2,4,5-T			Picloram	

	Hours per shift	Shifts per day	Days per week
a. Work schedule for previous month	8	3	7
b. Anticipated work schedule required for maximum production	8	3	7

Footnotes:

Section IX - REMARKS (Attach additional sheets if necessary.)

NOTE SECTION V

TCE:

BEGINNING INV.	377,793	371,793
Rec. PAYMENT	599,240	
LOSS RETURNS	<u>10,700</u>	
NET RECEIVABLE	588,540	<u>588,540</u>
TOTAL AVAIL.		460,333
LOSS USAGE		<u>612,281</u>
ENDING INV		<u>348,052</u>

2457

BEG. INV.	26,950
Acquisition	594,320
TOTAL	620,770
Shipments	532,220
ENDING INV.	88,550

532,270 lbs were shipped to MURKINCO W.G. KRUMHOLTZ PLANT
AT SUDGET ILLINOIS FOR FURTHER PROCESSING. ALL
MATERIAL WAS FOR ORANGE BRAND. 002

002138

This report is required under Section 705 of the Defense Production Act of 1950, as amended.		BUDGET BUREAU NO. 41-R2403 APPROVAL EXPIRES JUNE 30, 1970	
FORM BDSAF-771 16-10-671 U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS		1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below) Monsanto Company 800 N. Lindbergh Blvd St. Louis, Mo.	
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544		3. Plant name NITRO	
2. Month and year reported February 1968			
4. Plant location (See instructions) NW of Nitro on Viscose Road in Putnam County State of West Virginia			
<p align="center">INSTRUCTIONS</p> <p>Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future.</p> <p>File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process.</p> <p>Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1291 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilford County, Maryland, or on State Route 29, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware.</p> <p>Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable.</p> <p>Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions:</p> <ol style="list-style-type: none"> 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak operations. <p>Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report.</p> <p>Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported.</p> <p>Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency.</p> <p>Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants.</p> <p>Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and picloram included in military defoliants shipped in the month is required.</p>			
Name of person who should be contacted if questions arise regarding this report E. A. Cuthbert		Telephone No. and Area code (314) 755-3341	
Certification - The undersigned company and the official executing this certification in its behalf hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.			
Name of company Monsanto Company		Signature of authorized official	
Address of company 800 N. Lindbergh Blvd St. Louis, Mo.		Title 002139	Date
The U.S. Code, Title 18 (Crimes and Criminal Procedure), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction. The individual company information reported on this form is for use in defense mobilization activities. The unauthorized publication or disclosure of individual company information by Government personnel is prohibited by law, and such personnel having access thereto are subject to fine and imprisonment for unauthorized disclosure.			

Please complete form before signing certification

USC GMM-DC 33270-1167

ALN 01002349

Section I - CAPACITY - INTERMEDIATES AND DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid, (2) "Orange," (3) tetrachlorobenzene, (4) trichlorophenol, (5) picloram, and (6) Tordon 101[®]. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☒

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid	lbs.	
2	2,4,5-Trichlorophenoxy acetic acid	lbs.	
3	"Orange" ^{1 2}	gals.	
4	Tetrachlorobenzene	lbs.	
5	Trichlorophenol, technical grade ³	lbs.	
6	Trichlorophenol ⁴	lbs.	
7	Picloram	lbs.	
8	Tordon 101 ^{® 5}	gals.	

9. Is same equipment used to produce "trichlorophenol, technical grade," and "trichlorophenol" except for additional processing required on the higher grade material. ☐ Yes ☐ No

Section II - CAPACITY - DEFOLIANTS - This section is to be completed by producers of (1) 2, 4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, or monochloroacetic acid, and/or 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, acetic acid, or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid and (2) "Orange" or Alternate to "Orange." (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☐

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid, salts	lbs. ⁶	
2	2,4-Dichlorophenoxy acetic acid, esters	lbs. ⁶	
3	2,4,5-Trichlorophenoxy acetic acid, salts	lbs. ⁶	
4	2,4,5-Trichlorophenoxy acetic acid, esters	lbs. ⁶	
5	"Orange" ^{1 2}	gals.	
6	Alternate to "Orange" ^{2 7}	gals.	

7. Is the same equipment used to produce esters of 2,4-D and 2,4,5-T? ☐ Yes ☐ No

8. Is there any limitation on the type of esters which the equipment can produce? ☐ Yes ☐ No
If response is "Yes," provide explanation.

Section III - ADDITIONAL CAPACITY, UNDER CONSTRUCTION OR AUTHORIZED - INTERMEDIATES AND DEFOLIANTS
(See last page for footnotes.)

Item No.	Item (a)	Unit (b)	Additional capacity (c)	Approximate completion date (d)
1	2, 4-D	lbs. ⁶	—	—
2	2,4,5-T	lbs. ⁶	NONE	—
3	"Orange" ^{1 2}	gals.	—	002140
4	Alternate to "Orange" ^{2 7}	gals.	—	—

ALN 01002350

6	Trichlorophenol, technical grade ³	lbs.	—	—
7	Trichlorophenol ⁴	lbs.	—	—
8	Picloram	lbs.	—	—
9	Tordon 101 [®] 5	gals.	—	—

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,4,5-T and 2,4,5-T esters and salts. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item (a)	Production (b)	Receipts		Consumption		Shipments ⁸		End of month stocks (i)
			Domestic sources (c)	Foreign sources (d)	"Orange" (e)	Other products (f)	To military ⁹ defoliant producers (g)	To others (h)	
1	TCB		499,280		123,134				371,743
2	TCP, ³ tech.								
3	TCP ⁴								

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101[®]. (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments ⁸		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D	lbs. ⁶						
2	2,4,5-T	lbs. ⁶	407560					26450
3	"Orange" ¹	gals.						
4	Picloram	lbs.		10	10	10	10	10
5	Tordon 101 [®]	gals.						

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments ⁸		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
	Other salts or esters (Identify):							
6		lbs. ⁶						
7		lbs. ⁶						
8		lbs. ⁶						
9		lbs. ⁶						
10	"Orange" ¹	gals.						
11	Alternate to "Orange" ¹⁷	gals.						

002141

100-106891-271 15.10.67)

USCOMM-01 33170-PA3

ALN 01002352

This report is required under Section 705 of the Defense Production Act of 1950, as amended. BUDGET BUREAU NO. 41-R240J APPROVAL EXPIRES JUNE 30, 1970	
FORM BDSAF-771 (8-10-67) U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS	1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below) MONSANTO COMPANY 800 N. LINDBERGH BLVD ST. LOUIS, MO.
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544	
2. Month and year reported JANUARY 1968	3. Plant name NITRO
4. Plant location (See Instructions) NW of NITRO ON VISCESE ROAD IN PUTNAM COUNTY STATE OF WEST VIRGINIA	
INSTRUCTIONS <p>Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future.</p> <p>File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process.</p> <p>Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1281 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilford County, Maryland, or on State Route 29, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware.</p> <p>Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable.</p> <p>Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions:</p> <ol style="list-style-type: none"> 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak operations. <p>Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report.</p> <p>Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported.</p> <p>Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency.</p> <p>Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants.</p> <p>Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and picloram included in military defoliants shipped in the month is required.</p>	
Name of person who should be contacted if questions arise regarding this report E. A. CUTRIGHT	Telephone No. and Area code (304) 755-3341
Certification - The undersigned company and the official executing this certification in its behalf hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.	
Name of company MONSANTO COMPANY	Signature of authorized official
Address of company 800 N. LINDBERGH BLVD. ST. LOUIS, MO.	Title Date
The U.S. Code, Title 18 (Crimes and Criminal Procedure), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction. The individual company information reported on this form is for use in defense mobilization activities. The unauthorized publication or disclosure of individual company information by Government personnel is prohibited by law, and such personnel having access thereto are subject to fine and imprisonment for unauthorized disclosure.	

Please complete form before signing certification

002143 USCOM-ITC 33370-P07

ALN 01002353

Section I - CAPACITY - INTERMEDIATES AND DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid, (2) "Orange," (3) tetrachlorobenzene, (4) trichlorophenol, (5) picloram, and (6) Tordon 101⁽¹⁾. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☒

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid	lbs.	
2	2,4,5-Trichlorophenoxy acetic acid	lbs.	
3	"Orange" ¹ 2	gals.	
4	Tetrachlorobenzene	lbs.	
5	Trichlorophenol, technical grade ³	lbs.	
6	Trichlorophenol ⁴	lbs.	
7	Picloram	lbs.	
8	Tordon 101 ⁽¹⁾ 5	gals.	

9. Is same equipment used to produce "trichlorophenol, technical grade," and "trichlorophenol" except for additional processing required on the higher grade material. ☐ Yes ☐ No

Section II - CAPACITY - DEFOLIANTS - This section is to be completed by producers of (1) 2, 4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, or monochloroacetic acid, and/or 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, acetic acid, or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid and (2) "Orange" or Alternate to "Orange." (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☐

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid, salts	lbs. ⁶	
2	2,4-Dichlorophenoxy acetic acid, esters	lbs. ⁶	
3	2,4,5-Trichlorophenoxy acetic acid, salts	lbs. ⁶	
4	2,4,5-Trichlorophenoxy acetic acid, esters	lbs. ⁶	
5	"Orange" ¹ 2	gals.	
6	Alternate to "Orange" ² 7	gals.	

7. Is the same equipment used to produce esters of 2,4-D and 2,4,5-T? ☐ Yes ☐ No

8. Is there any limitation on the type of esters which the equipment can produce? ☐ Yes ☐ No
If response is "Yes," provide explanation.

Section III - ADDITIONAL CAPACITY, UNDER CONSTRUCTION OR AUTHORIZED - INTERMEDIATES AND DEFOLIANTS
(See last page for footnotes.)

Item No.	Item (a)	Unit (b)	Additional capacity (c)	Approximate completion date (d)
1	2, 4-D	lbs. ⁶	—	—
2	2,4,5-T	lbs. ⁶	NONE	—
3	"Orange" ¹ 2	gals.	—	002144
4	Alternate to "Orange" ² 7	gals.		

ALN 01002354

6	Trichlorophenol, technical grade ³	lbs.	-	-
7	Trichlorophenol ⁴	lbs.	-	-
8	Picloram	lbs.	-	-
9	Tordon 101 [®] 5	gals.	-	-

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,4,5-T and 2,4,5-T esters and salts. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item	Production	Receipts		Consumption		Shipments ⁸		End of month stocks
			Domestic sources	Foreign sources	"Orange"	Other products	To military ⁹ defoliant producers	To others	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	
1	TCB		515360		548,533				295,647
2	TCP, ³ tech.								
3	TCP ⁴								

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101[®]. (See last page for footnotes).

Item No.	Item	Unit	Production	Receipts		Non-military shipments ⁸		End of month stocks
				Domestic sources	Foreign sources	Domestic	Exports	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	
1	2,4-D	lbs. ⁶						
2	2,4,5-T	lbs. ⁶	565,340					54050
3	"Orange" ¹	gals.						
4	Picloram	lbs.		10	10	10	10	10
5	Tordon 101 [®]	gals.						

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item	Unit	Production	Receipts		Non-military shipments ⁸		End of month stocks
				Domestic sources	Foreign sources	Domestic	Exports	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
	Other salts or esters (Identify)							
6		lbs. ⁶						
7		lbs. ⁶						
8		lbs. ⁶						
9		lbs. ⁶						
10	"Orange" ¹	gals.						
11	Alternate to "Orange" ^{1,7}	gals.						

002145

Section VIII - WORK SCHEDULE

Footnotes:

"Orange" - designation assigned to military defoliant formulation of butyl ester of 2,4-D and 2,4,5-T.

²Based on capacity to produce 2,4,5-T component and regardless of availability of 2,4-D component.

³Trichlorophenol, technical grade - designation assigned to TCP used in production of 2,4,5-T, 2,4,5-T esters and salts, "Orange," or Alternate to "Orange". It can also be used to produce other products.

⁴Trichlorophenol - Used to denote a higher grade material than that designated trichlorophenol, technical grade.

⁵Based on capacity to produce picloram.

⁶ Acid equivalent.

7 Alternate to "Orange" - designation assigned to military defoliant formulation of butyl ester of 2,4-D and iso-octyl ester of 2,4,5-T.

*Include transfers within the company, except material transferred to another location to be incorporated into military defoliants.

*Shipments on rated orders to producers of military defoliants.

¹⁰Include picloram in any form except in Tordon 101 [®], which is to be included in items 5 (d), 5 (e), 5 (f), 5 (g), and 5 (h), Section V.

* On rated orders.

Section IX - REMARKS (Attach additional sheets if necessary.)

NOTE SECTION IV

NOTE SECTION 5.

<u>245 T</u>	BEG. INVENTORY	69,275
	INVENTORY ERROR	- 275
	ACT. REVENUE	69,000
	PRODUCED	<u>565,340</u>
	TOTAL TALL.	634,340
	SHIPPED	580,290
	ENDING INV.	<u>54,050</u>

TCB:

Beginning Inventory	328,820
Rec. Plant	<u>525,666</u>
Total to Account	854,486
Credit on Return	<u>10,300</u>
Less usage of	844,186
	<u>548,593</u>
Ending Inv.	295,647

$$1.07 \text{ Rec.} = 525,660 - 10,300 = 515,360$$

560,290 lbs were shipped to MENDANTO'S PLANT AT
SAVING ILLINOIS (WICKHAM PLANT) FOR FURTHER PROCESSING
ALL MATERIAL WAS FOR ORANGE BRAND.

002146

This report is required under Section 703 of the Defense Production Act of 1950, as amended. FORM BDSAF-771 10-10-67 U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS		BUREAU OF DEFENSE APPROVAL EXPIRES JUNE 30, 1970 1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below) MONSANTO COMPANY 800 N. LINDBERGH, BLVD ST. LOUIS, MO	
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544		3. Plant name NITRO	
2. Month and year reported DECEMBER 1967		4. Plant location (See Instructions) NW of NITRO on VISCOS ROAD IN PUTNAM COUNTY STATE OF WEST VIRGINIA	
INSTRUCTIONS Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future. File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process. Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1281 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilford County, Maryland, or on State Route 29, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware. Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable. Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions: 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak operations. Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report. Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported. Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency. Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants. Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and picloram included in military defoliants shipped in the month is required.			
Name of person who should be contacted if questions arise regarding this report E. A. CUTRIGHT		Telephone No. and Area code (304) 755-3341	
Certification - The undersigned company and the official executing this certification in its behalf hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.			
Name of company MONSANTO COMPANY		Signature of authorized official 	
Address of company 800 N. LINDBERGH BLVD ST. LOUIS, MO.		Title 	Date

Please complete form before signing certification

USCOMM-DC 33270-P67

002147

ALN 01002357

Section I - CAPACITY - INTERMEDIATES AND DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid, (2) "Orange," (3) tetrachlorobenzene, (4) trichlorophenol, (5) picloram, and (6) Tordon 101[®]. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☒

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid	lbs.	
2	2,4,5-Trichlorophenoxy acetic acid	lbs.	
3	"Orange" ^{1 2}	gals.	
4	Tetrachlorobenzene	lbs.	
5	Trichlorophenol, technical grade ³	lbs.	
6	Trichlorophenol ⁴	lbs.	
7	Picloram	lbs.	
8	Tordon 101 ^{® 5}	gals.	

9. Is same equipment used to produce "trichlorophenol, technical grade," and "trichlorophenol" except for additional processing required on the higher grade material. ☐ Yes ☐ No

Section II - CAPACITY - DEFOLIANTS - This section is to be completed by producers of (1) 2, 4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, or monochloroacetic acid, and/or 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, acetic acid, or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid and (2) "Orange" or Alternate to "Orange." (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☐

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid, salts	lbs. ⁶	
2	2,4-Dichlorophenoxy acetic acid, esters	lbs. ⁶	
3	2,4,5-Trichlorophenoxy acetic acid, salts	lbs. ⁶	
4	2,4,5-Trichlorophenoxy acetic acid, esters	lbs. ⁶	
5	"Orange" ^{1 2}	gals.	
6	Alternate to "Orange" ^{2 7}	gals.	

7. Is the same equipment used to produce esters of 2,4-D and 2,4,5-T? ☐ Yes ☐ No

8. Is there any limitation on the type of esters which the equipment can produce? ☐ Yes ☐ No
If response is "Yes," provide explanation.

Section III - ADDITIONAL CAPACITY, UNDER CONSTRUCTION OR AUTHORIZED - INTERMEDIATES AND DEFOLIANTS
(See last page for footnotes.)

Item No.	Item (a)	Unit (b)	Additional capacity (c)	Approximate completion date (d)
1	2, 4-D	lbs. ⁸	—	—
2	2,4,5-T	lbs. ⁶	NONE	—
3	"Orange" ^{1 2}	gals.	—	—
4	Alternate to "Orange" ^{2 7}	gals.	—	002148

ALN 01002358

6	Trichlorophenol, technical grade ³	lbs.	—	—
7	Trichlorophenol ⁴	lbs.	—	—
8	Picloram	lbs.	—	—
9	Tordon 101 [®] 5	gals.	—	—

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,4,5-T and 2,4,5-T esters and salts. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item	Production	Receipts		Consumption		Shipments ⁶		End of month stocks
			Domestic sources	Foreign sources	"Orange"	Other products	To military ⁹ defoliant producers	To others	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	
1	TCB		485,540		527,376				328,820
2	TCP, ³ tech.								
3	TCP ⁴								

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101[®]. (See last page for footnotes).

Item No.	Item	Unit	Production	Receipts		Non-military shipments ⁶		End of month stocks
				Domestic sources	Foreign sources	Domestic	Exports	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	
1	2,4-D	lbs. ⁶						
2	2,4,5-T	lbs. ⁶	532,450					69,275
3	"Orange" 1	gals.						
4	Picloram	lbs.		10	10	10	10	10
5	Tordon 101 [®]	gals.						

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, trichlorophenoxy acetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, trichlorophenoxy acetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item	Unit	Production	Receipts		Non-military shipments ⁶		End of month stocks
				Domestic sources	Foreign sources	Domestic	Exports	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
6	Other salts or esters (Identify):	lbs. ⁶						
7		lbs. ⁶						
8		lbs. ⁶						
9		lbs. ⁶						
10	"Orange" 1	gals.						
11	Alternate to "Orange" 7	gals.						

FDHM 41547-271 15-10-07

USCOMM-DC 33370-P67

This report is required under Section 705 of the Defense Production Act of 1950, as amended.		BUDGET BUREAU NO. 41-R240J APPROVAL EXPIRES JUNE 30, 1970	
FORM BDSAF-771 10-10-67 U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS		1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below) MONSINIO COMPANY 800 N. LINDBERGH BLVD ST. LOUIS, MO	
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544		3. Plant name NITRO	
2. Month and year reported November 1967		4. Plant location (See Instructions) NW of NITRO on VISCOSE ROAD IN PUTNAM COUNTY STATE of WEST VIRGINIA	
INSTRUCTIONS			
<p>Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future.</p> <p>File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process.</p> <p>Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1281 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilkes County, Maryland, or on State Route 29, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware.</p> <p>Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable.</p> <p>Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions:</p> <ol style="list-style-type: none"> 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak operations. 		<p>Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report.</p> <p>Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported.</p> <p>Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency.</p> <p>Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants.</p> <p>Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and picloram included in military defoliants shipped in the month is required.</p>	
Name of person who should be contacted if questions arise regarding this report E. H. CUTRIGHT		Telephone No. and Area code (204) 755-3341	
Certification - The undersigned company and the official executing this certification in its behalf hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.			
Name of company MONSINIO COMPANY		Signature of authorized official	
Address of company (see above) ST. LOUIS, MO.		Title Date	
The U.S. Code, Title 18 (Crimes and Criminal Procedure), Section 1001, makes it a criminal offense to make a wilfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction. The individual company information reported on this form is for use in defense mobilization activities. The unauthorized publication or disclosure of individual company information by Government personnel is prohibited by law, and such personnel having access thereto are subject to fine and imprisonment for unauthorized disclosure.			

Please complete form before signing certification

002151

ALN 01002361

Section I - CAPACITY - INTERMEDIATES AND DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid, (2) "Orange," (3) tetrachlorobenzene, (4) trichlorophenol, (5) picloram, and (6) Tordon 101⁽⁶⁾. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☒

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid	lbs.	
2	2,4,5-Trichlorophenoxy acetic acid	lbs.	
3	"Orange" ^{1 2}	gals.	
4	Tetrachlorobenzene	lbs.	
5	Trichlorophenol, technical grade ³	lbs.	
6	Trichlorophenol ⁴	lbs.	
7	Picloram	lbs.	
8	Tordon 101 ^{® 5}	gals.	

9. Is same equipment used to produce "trichlorophenol, technical grade," and "trichlorophenol" except for additional processing required on the higher grade material. ☐ Yes ☐ No

Section II - CAPACITY - DEFOLIANTS - This section is to be completed by producers of (1) 2, 4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, or monochloroacetic acid, and/or 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, acetic acid, or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid and (2) "Orange" or Alternate to "Orange." (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☐

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid, salts	lbs. ⁶	
2	2,4-Dichlorophenoxy acetic acid, esters	lbs. ⁶	
3	2,4,5-Trichlorophenoxy acetic acid, salts	lbs. ⁶	
4	2,4,5-Trichlorophenoxy acetic acid, esters	lbs. ⁶	
5	"Orange" ^{1 2}	gals.	
6	Alternate to "Orange" ^{2 7}	gals.	

7. Is the same equipment used to produce esters of 2,4-D and 2,4,5-T? ☐ Yes ☐ No

8. Is there any limitation on the type of esters which the equipment can produce? ☐ Yes ☐ No
If response is "Yes," provide explanation.

Section III - ADDITIONAL CAPACITY, UNDER CONSTRUCTION OR AUTHORIZED - INTERMEDIATES AND DEFOLIANTS
(See last page for footnotes.)

Item No.	Item (a)	Unit (b)	Additional capacity (c)	Approximate completion date (d)
1	2, 4-D	lbs. ⁶	—	—
2	2,4,5-T	lbs. ⁶	NONE	—
3	"Orange" ^{1 2}	gals.	—	002152
4	Alternate to "Orange" ^{2 7}	gals.		

ALN 01002362

6	Trichlorophenol, technical grade ³	lbs.	—	—
7	Trichlorophenol ⁴	lbs.	—	—
8	Picloram	lbs.	—	—
9	Tordon 101 [®] ⁵	gals.	—	—

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,4,5-T and 2,4,5-T esters and salts. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item	Production (b)	Receipts		Consumption		Shipments ⁶		End of month stocks (i)
			Domestic sources (c)	Foreign sources (d)	"Orange" (e)	Other products (f)	To military ⁹ defoliant producers (g)	To others (h)	
1	TCB								
2	TCP, ³ tech.		711,460		458,316				370,656
3	TCP ⁴								

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101[®]. (See last page for footnotes).

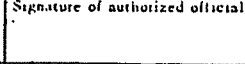
Item No.	Item	Unit	Production (c)	Receipts		Non-military shipments ⁶		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D	lbs. ⁶						
2	2,4,5-T	lbs. ⁶	465,300					69,275
3	"Orange" ¹	gals.						
4	Picloram	lbs.		10	10	10	10	10
5	Tordon 101 [®]	gals.						

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item	Unit	Production (c)	Receipts		Non-military shipments ⁶		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
	Other salts or esters (Identify):							
6		lbs. ⁶						
7		lbs. ⁶						
8		lbs. ⁶						
9		lbs. ⁶						
10	"Orange" ¹	gals.						
11	Alternate to "Orange" ¹⁷	gals.						002153

FILED MAR 27 1967

USCOMM-PC 33374-PA7

This report is required under Section 1001 of the Defense Production Act of 1950, as amended.		BUDGET BUREAU NO. 41-R2402 APPROVAL EXPIRES JUNE 30, 1970	
FORM BDSAF-771 (8-10-67) U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS		1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below) MONSANTO COMPANY 800 N. LINDBERGH BLVD. ST. LOUIS, MO.	
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544			
2. Month and year reported OCTOBER 1967		3. Plant name NITRO	
4. Plant location (See Instructions) NW of NITRO ON VISCOS ROAD IN PUTNAM COUNTY STATE OF WEST VIRGINIA			
INSTRUCTIONS			
<p>Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future.</p> <p>File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process.</p> <p>Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1281 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilford County, Maryland, or on State Route 29, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware.</p> <p>Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable.</p> <p>Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions:</p> <ol style="list-style-type: none"> 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak operations. 		<p>Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report.</p> <p>Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported.</p> <p>Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency.</p> <p>Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants.</p> <p>Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and picloram included in military defoliants shipped in the month is required.</p>	
Name of person who should be contacted if questions arise regarding this report E. A. CUTRIGHT		Telephone No. and Area code (304) 755 3341	
Certification - The undersigned company and the official executing this certification in its behalf hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.			
Name of company MONSANTO COMPANY		Signature of authorized official 	
Address of company 800 N. LINDBERGH BLVD. ST. LOUIS, MO		Title Date	
The U.S. Code, Title 18 (Crimes and Criminal Procedure), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States or to any officer within its jurisdiction. The individual company information reported on this form is for use in defense mobilization activities. The unauthorized publication or disclosure of individual company information by Government personnel is prohibited by law, and such personnel having access thereto are subject to fine and imprisonment for unauthorized disclosure.			

Please complete form before signing certification

USCOMM-DE 3370-P47

062155

ALN 01002365

Section I - CAPACITY - INTERMEDIATES AND DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid, (2) "Orange," (3) tetrachlorobenzene, (4) trichlorophenol, (5) picloram, and (6) Tordon 101[®]. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☒

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid	lbs.	
2	2,4,5-Trichlorophenoxy acetic acid	lbs.	
3	"Orange" ^{1 2}	gals.	
4	Tetrachlorobenzene	lbs.	
5	Trichlorophenol, technical grade ³	lbs.	
6	Trichlorophenol ⁴	lbs.	
7	Picloram	lbs.	
8	Tordon 101 ^{® 5}	gals.	

9. Is same equipment used to produce "trichlorophenol, technical grade," and "trichlorophenol" except for additional processing required on the higher grade material. ☐ Yes ☐ No

Section II - CAPACITY - DEFOLIANTS - This section is to be completed by producers of (1) 2, 4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, or monochloroacetic acid, and/or 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, acetic acid, or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid and (2) "Orange" or Alternate to "Orange." (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☐

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid, salts	lbs. ⁶	
2	2,4-Dichlorophenoxy acetic acid, esters	lbs. ⁶	
3	2,4,5-Trichlorophenoxy acetic acid, salts	lbs. ⁶	
4	2,4,5-Trichlorophenoxy acetic acid, esters	lbs. ⁶	
5	"Orange" ^{1 2}	gals.	
6	Alternate to "Orange" ^{2 7}	gals.	

7. Is the same equipment used to produce esters of 2,4-D and 2,4,5-T? ☐ Yes ☐ No

8. Is there any limitation on the type of esters which the equipment can produce? ☐ Yes ☐ No
If response is "Yes," provide explanation.

Section III - ADDITIONAL CAPACITY, UNDER CONSTRUCTION OR AUTHORIZED - INTERMEDIATES AND DEFOLIANTS
(See last page for footnotes.)

Item No.	Item (a)	Unit (b)	Additional capacity (c)	Approximate completion date (d)
1	2, 4-D	lbs. ⁶	—	—
2	2,4,5-T	lbs. ⁶	—	—
3	"Orange" ^{1 2}	gals.	None	002156
4	Alternate to "Orange" ^{2 7}	gals.	—	—

ALN 01002366

6	Trichlorophenol, technical grade ³	lbs.		
7	Trichlorophenol ⁴	lbs.		
8	Picloram	lbs.		
9	Tordon 101 ^(b) 5	gals.		

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,4,5-T and 2,4,5-T esters and salts. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item	Production	Receipts		Consumption		Shipments ⁶		End of month stocks
			Domestic sources	Foreign sources	"Orange"	Other products	To military ⁹ defoliant producers	To others	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	
1	TCB		541,560		618,085				147,574
2	TCP, ³ tech.								
3	TCP ⁴								

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101^(b). (See last page for footnotes).

Item No.	Item	Unit	Production	Receipts		Non-military shipments ⁶		End of month stocks
				Domestic sources	Foreign sources	Domestic	Exports	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	
1	2,4-D	lbs. ⁶						
2	2,4,5-T	lbs. ⁶	127,250	629,050				108,375
3	"Orange" ¹	gals.						
4	Picloram	lbs.		10	10	10	10	10
5	Tordon 101 ^(b)	gals.						

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item	Unit	Production	Receipts		Non-military shipments ⁶		End of month stocks
				Domestic sources	Foreign sources	Domestic	Exports	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
6	Other salts or esters (Identify)	lbs. ⁶						
7		lbs. ⁶						
8		lbs. ⁶						
9		lbs. ⁶						
10	"Orange" ¹	gals.						
11	Alternate to "Orange" ⁷	gals.						

FORM DDSA-771 (8-10-67)

Please continue on reverse

002157

USCOMM-11C 33370-Pe7

ALN 01002367

2	Technical material contained in total quantity of above material shipped to DoD.		4	Technical material contained in total quantity of above material shipped to DoD.	
	Item (a)	Quantity (lbs, ⁶) (b)		Item (a)	Quantity (lbs, ⁶) (b)
	2,4-D	6		2,4-D	7
	2,4,5-T	8		Picloram	7

	Hours per shift	Shifts per day	Days per week
a. Work schedule for previous month			
b. Anticipated work schedule required for maximum production			

- 1 "Orange" - designation assigned to military defoliant formulation of butyl ester of 2,4-D and 2,4,5-T.
- 2 Based on capacity to produce 2,4,5-T component and regardless of availability of 2,4-D component.
- 3 Trichlorophenol, technical grade - designation assigned to TCP used in production of 2,4,5-T, 2,4,5-T esters and salts, "Orange", or Alternate to "Orange". It can also be used to produce other products.
- 4 Trichlorophenol - Used to denote a higher grade material than that designated trichlorophenol, technical grade.
- 5 Based on capacity to produce picloram.
- 6 Acid equivalent.
- 7 Alternate to "Orange" - designation assigned to military defoliant formulation of butyl ester of 2,4-D and iso-octyl ester of 2,4,5-T.
- 8 Include transfers within the company, except material transferred to another location to be incorporated into military defoliants.
- 9 Shipments on rated orders to producers of military defoliants.
- 10 Include picloram in any form except in Tordon 101 ®, which is to be included in items 5 (d), 5 (e), 5 (f), 5 (g), and 5 (h), Section V.
- 11 On rated orders.

NOTE SECTION IV

SHIPPED TO PLANT 510,840
CREDIT ON RETURNED HERE 7080
Net Received 541,560

- 397,900 lbs were shipped to Monsanto's BAYTON PLANT AT LUKING, LOUISIANA AND 207,000 lbs were shipped to Monsanto's Wm. G. Krummich PLANT AT SAVOY ILLINOIS FOR FURTHER PROCESSING. ALL MATERIAL WAS FOR ORANGE BAND.

002158

This report is required under Section 705 of the Defense Production Act of 1950, as amended. BUDGET BUREAU NO. 41-H240J APPROVAL EXPIRES JUNE 30, 1970	
FORM BDSAF-771 (6-10-67) U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS	1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below) MICHASANTO COMPANY 800 N. LINDBERGH BLVD. ST. LOUIS, MISSOURI
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544	
2. Month and year reported SEPTEMBER 1967	3. Plant name NITRO
4. Plant location (See Instructions) NW of Nible on Viscose Rd. in Putnam County, State of West Virginia	
INSTRUCTIONS <p>Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future.</p> <p>File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process.</p> <p>Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1281 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilkes County, Maryland, or on State Route 29, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware.</p> <p>Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable.</p> <p>Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions:</p> <ol style="list-style-type: none"> 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak operations. <p>Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report.</p> <p>Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported.</p> <p>Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency.</p> <p>Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants.</p> <p>Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and picloram included in military defoliants shipped in the month is required.</p>	
Name of person who should be contacted if questions arise regarding this report E A CHITRIGHT	Telephone No. and Area code (304) 755-2341
Certification - The undersigned company and the official executing this certification in its behalf hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.	
Name of company MICHASANTO COMPANY	Signature of authorized official
Address of company 800 N LINDBERGH BLVD A10. ST. LOUIS, MO.	Title Date
The U.S. Code, Title 18 (Crimes and Criminal Procedure), Section 1001, makes it a criminal offense to make a willfully false or fraudulent statement to any department or agency of the United States as to any matter within its jurisdiction. The individual company is prohibited on this form for use in defense mobilization activities. The unauthorized publication or disclosure of individual company information by Government personnel is prohibited by law, and such personnel having access thereto are subject to fine and imprisonment for unauthorized disclosure.	

Please complete form before signing certification

DSF FORM NO. 2 (10-1-67)

ALN 01002369

Section I - CAPACITY - INTERMEDIATES AND DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid, (2) "Orange," (3) tetrachlorobenzene, (4) trichlorophenol, (5) picloram, and (6) Tordon 101⁽⁶⁾. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☒

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid	lbs.	
2	2,4,5-Trichlorophenoxy acetic acid	lbs.	
3	"Orange" ^{1 2}	gals.	
4	Tetrachlorobenzene	lbs.	
5	Trichlorophenol, technical grade ³	lbs.	
6	Trichlorophenol ⁴	lbs.	
7	Picloram	lbs.	
8	Tordon 101 ^{(6) 5}	gals.	

9. Is same equipment used to produce "trichlorophenol, technical grade," and "trichlorophenol" except for additional processing required on the higher grade material. ☐ Yes ☐ No

Section II - CAPACITY - DEFOLIANTS - This section is to be completed by producers of (1) 2, 4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, or monochloroacetic acid, and/or 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, acetic acid, or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid and (2) "Orange" or Alternate to "Orange." (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☐

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid, salts	lbs. ⁶	
2	2,4-Dichlorophenoxy acetic acid, esters	lbs. ⁶	
3	2,4,5-Trichlorophenoxy acetic acid, salts	lbs. ⁶	
4	2,4,5-Trichlorophenoxy acetic acid, esters	lbs. ⁶	
5	"Orange" ^{1 2}	gals.	
6	Alternate to "Orange" ^{2 7}	gals.	

7. Is the same equipment used to produce esters of 2,4-D and 2,4,5-T? ☐ Yes ☐ No

8. Is there any limitation on the type of esters which the equipment can produce? ☐ Yes ☐ No
If response is "Yes," provide explanation.

Section III - ADDITIONAL CAPACITY, UNDER CONSTRUCTION, OR AUTHORIZED - INTERMEDIATES AND DEFOLIANTS
(See last page for footnotes.)

Item No.	Item (a)	Unit (b)	Additional capacity (c)	Approximate completion date (d)
1	2, 4-D	lbs. ⁶		
2	2,4,5-T	lbs. ⁶		
3	"Orange" ^{1 2}	gals.	None	002160
4	Alternate to "Orange" ^{2 7}	gals.		

ALN 01002370

6	Trichlorophenol, technical grade ³	lbs.		
7	Trichlorophenol ⁴	lbs.		
8	Picloram	lbs.		
9	Tordon 101 ^(R) 5	gals.		

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,1,5-T and 2,4,5-T esters and salts. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item	Production	Receipts		Consumption		Shipments ⁸		End of month stocks
			Domestic sources	Foreign sources	"Orange"	Other products	To military ⁹ defoliant producers	To others	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1	TCB		428,760		588,340				224,094
2	TCP, ³ tech.								
3	TCP ⁴								

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101^(R). (See last page for footnotes).

Item No.	Item	Unit	Production	Receipts		Non-military shipments ⁸		End of month stocks
				Domestic sources	Foreign sources	Domestic	Exports	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
1	2,4-D	lbs. ⁶						
2	2,4,5-T	lbs. ⁶	592,200					84,215
3	"Orange" ¹	gals.						
4	Picloram	lbs.		10	10	10	10	10
5	Tordon 101 ^(R)	gals.						

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item	Unit	Production	Receipts		Non-military shipments ⁸		End of month stocks
				Domestic sources	Foreign sources	Domestic	Exports	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
6	Other salts or esters (Identify):	lbs. ⁶						
7		lbs. ⁶						
8		lbs. ⁶						
9		lbs. ⁶						
10	"Orange" ¹	gals.						
11	Alternate to "Orange" ⁷	gals.						

002161

* (2018 RELEASE) 721 10-12-87)

USCOMM.DC 33370-P67

ALN 01002372

This report is required under Section 705 of the Defense Production Act of 1950, as amended.		BUDGET BUREAU NO. 41-RJ402 APPROVAL EXPIRES JUNE 30, 1970	
FORM BDSAF-771 (8-10-67) U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS		1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below) MONSANTO COMPANY 800 N. LINDBERGH BLVD ST LOUIS, MISSOURI	
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544		3. Plant name NITRO	
2. Month and year reported AUGUST 1967		4. Plant location (See Instructions) NW of Nitro on Viscose Road in Putnam County, State of West Virginia	
INSTRUCTIONS			
<p>Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future.</p> <p>File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process.</p> <p>Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1281 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilford County, Maryland, or on State Route 29, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware.</p> <p>Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable.</p> <p>Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions:</p> <ol style="list-style-type: none"> 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak operations. 		<p>Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report.</p> <p>Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported.</p> <p>Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency.</p> <p>Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants.</p> <p>Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and picloram included in military defoliants shipped in the month is required.</p>	
Name of person who should be contacted if questions arise regarding this report E A Cutright		Telephone No. and Area code 304 - 755-3341	
Certification - The undersigned company and the official executing this certification in its behalf hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.			
Name of company MONSANTO COMPANY		Signature of authorized official	
Address of company 800 N. LINDBERGH Blvd, St. Louis, Mo.		Title 002163	Date 002163
The U.S. Code, Title 18 (Crimes and Criminal Procedure), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction. The individual company information reported on this form is for use in defense mobilization activities. The unauthorized publication or disclosure of individual company information by Government personnel is prohibited by law, and such personnel having access thereto are subject to fine and imprisonment for unauthorized disclosure.			

Please complete form before signing certification

USCOMM-DC 3-578-1167

ALN 01002373

Section I - CAPACITY - INTERMEDIATES AND DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid, (2) "Orange," (3) tetrachlorobenzene, (4) trichlorophenol, (5) picloram, and (6) Tordon 101[®]. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☒

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid	lbs.	
2	2,4,5-Trichlorophenoxy acetic acid	lbs.	
3	"Orange" ^{1 2}	gals.	
4	Tetrachlorobenzene	lbs.	
5	Trichlorophenol, technical grade ³	lbs.	
6	Trichlorophenol ⁴	lbs.	
7	Picloram	lbs.	
8	Tordon 101 ^{® 5}	gals.	

9. Is same equipment used to produce "trichlorophenol, technical grade," and "trichlorophenol" except for additional processing required on the higher grade material. ☐ Yes ☐ No

Section II - CAPACITY - DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, or monochloroacetic acid, and/or 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, acetic acid, or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid and (2) "Orange" or Alternate to "Orange." (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☐

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid, salts	lbs. ⁶	
2	2,4-Dichlorophenoxy acetic acid, esters	lbs. ⁶	
3	2,4,5-Trichlorophenoxy acetic acid, salts	lbs. ⁶	
4	2,4,5-Trichlorophenoxy acetic acid, esters	lbs. ⁶	
5	"Orange" ^{1 2}	gals.	
6	Alternate to "Orange" ^{3 7}	gals.	

7. Is the same equipment used to produce esters of 2,4-D and 2,4,5-T? ☐ Yes ☐ No

8. Is there any limitation on the type of esters which the equipment can produce?
If response is "Yes," provide explanation.

☐ Yes ☐ No

Section III - ADDITIONAL CAPACITY, UNDER CONSTRUCTION OR AUTHORIZED - INTERMEDIATES AND DEFOLIANTS
(See last page for footnotes.)

Item No.	Item (a)	Unit (b)	Additional capacity (c)	Approximate completion date (d)
1	2, 4-D	lbs. ⁶		002J64
2	2, 4, 5-T	lbs. ⁶	None	
4	"Orange" ^{1 2}	gals.	None	
6	Alternate to "Orange" ^{3 7}	gals.		

ALN 01002374

6	Trichlorophenol, technical grade ³	lbs.	—	—
7	Trichlorophenol ⁴	lbs.	—	—
8	Picloram	lbs.	—	—
9	Tordon 101 [®] 5	gals.	—	—

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,4,5-T and 2,4,5-T esters and salts. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item	Production	Receipts		Consumption		Shipments ⁸		End of month stocks
			Domestic sources	Foreign sources	"Orange"	Other products	To military ⁹ defoliant producers	To others	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
1	TCB		723,150		601,369				383,479
2	TCP, ³ tech.								
3	TCP ⁴								

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101[®]. (See last page for footnotes).

Item No.	Item	Unit	Production	Receipts		Non-military shipments ⁸		End of month stocks
				Domestic sources	Foreign sources	Domestic	Exports	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	2,4-D	lbs. ⁶						
2	2,4,5-T	lbs. ⁶	563,095					36,565
3	"Orange" ¹	gals.						
4	Picloram	lbs.		10	10	10	10	10
5	Tordon 101 [®]	gals.						

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item	Unit	Production	Receipts		Non-military shipments ⁸		End of month stocks
				Domestic sources	Foreign sources	Domestic	Exports	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
6	Other salts or esters (Identify):	lbs. ⁶						
7		lbs. ⁶						
8		lbs. ⁶						
9		lbs. ⁶						
10	"Orange" ¹	gals.						
11	Alternate to "Orange" ¹⁷	gals.						

FORM 1056A-771 15-10-67

Please continue on reverse

USCOMM-11C 33970-1187

ALN 01002375

104-101941-771 10-11-67

USCOMM-OL 33370-P67

ALN 01002376

This report is required under Section 705 of the Defense Production Act of 1950, as amended. FORM BDSAF-771 (5-10-67) U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS		BUDGET BUREAU NO. 41-R7402 APPROVAL EXPIRES JUNE 30, 1970	
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544		1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below) MONSANTO COMPANY 800 N. LINDBERGH BLVD ST. LOUIS, MISSOURI	
2. Month and year reported July 1967		3. Plant name NITRO	
4. Plant location (See Instructions) N.W. of NITRO ON VISCOSSE ROAD IN PUTNAM COUNTY, STATE OF WEST VIRGINIA			
INSTRUCTIONS <p>Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future.</p> <p>File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process.</p> <p>Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1281 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilford County, Maryland, or on State Route 29, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware.</p> <p>Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable.</p> <p>Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions:</p> <ol style="list-style-type: none"> 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak operations. <p>Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report.</p> <p>Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported.</p> <p>Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency.</p> <p>Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants.</p> <p>Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and picloram included in military defoliants shipped in the month is required.</p>			
Name of person who should be contacted if questions arise regarding this report E. A. CUTRIGHT		Telephone No. and Area Code 304-755-3341	
Certification - The undersigned company and the official executing this certification in its behalf hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.			
Name of company MONSANTO COMPANY		Signature of authorized official ()	
Address of company 800 N. LINDBERGH BLVD ST LOUIS, MO.		Title 002167	
Date 002167			
The U.S. Code, Title 18 (Crimes and Criminal Procedure), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction. The individual company information reported on this form is for use in defense mobilization activities. The unauthorized publication or disclosure of individual company information by Government personnel is prohibited by law, and such personnel having access thereto are subject to fine and imprisonment for unauthorized disclosure.			

Please complete form before signing certification

DS FORM 771-10-67

ALN 01002377

Section I - CAPACITY - INTERMEDIATES AND DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid, (2) "Orange," (3) tetrachlorobenzene, (4) trichlorophenol, (5) picloram, and (6) Tordon 101[®]. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☒

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid	lbs.	
2	2,4,5-Trichlorophenoxy acetic acid	lbs.	
3	"Orange" ^{1 2}	gals.	
4	Tetrachlorobenzene	lbs.	
5	Trichlorophenol, technical grade ³	lbs.	
6	Trichlorophenol ⁴	lbs.	
7	Picloram	lbs.	
8	Tordon 101 ^{® 5}	gals.	

9. Is same equipment used to produce "trichlorophenol, technical grade," and "trichlorophenol" except for additional processing required on the higher grade material. ☐ Yes ☐ No

Section II - CAPACITY - DEFOLIANTS - This section is to be completed by producers of (1) 2, 4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, or monochloroacetic acid, and/or 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, acetic acid, or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid and (2) "Orange" or Alternate to "Orange." (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☐

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid, salts	lbs. ⁶	
2	2,4-Dichlorophenoxy acetic acid, esters	lbs. ⁶	
3	2,4,5-Trichlorophenoxy acetic acid, salts	lbs. ⁶	
4	2,4,5-Trichlorophenoxy acetic acid, esters	lbs. ⁶	
5	"Orange" ^{1 2}	gals.	
6	Alternate to "Orange" ^{2 7}	gals.	

7. Is the same equipment used to produce esters of 2,4-D and 2,4,5-T? ☐ Yes ☐ No

8. Is there any limitation on the type of esters which the equipment can produce? ☐ Yes ☐ No
If response is "Yes," provide explanation.

Section III - ADDITIONAL CAPACITY, UNDER CONSTRUCTION OR AUTHORIZED - INTERMEDIATES AND DEFOLIANTS
(See last page for footnotes.)

Item No.	Item (a)	Unit (b)	Additional capacity (c)	Approximate completion date (d)
1	2, 4-D	lbs. ⁶		
2	2, 4, 5-T	lbs. ⁶		002168
3	"Orange" ^{1 2}	gals.	NONE	
4	Alternate to "Orange" ^{2 7}	gals.		

ALN 01002378

6	Trichlorophenol, technical grade ³	lbs.	—	—
7	Trichlorophenol ⁴	lbs.	—	—
8	Picloram	lbs.	—	—
9	Tordon 101 ^(R) 5	gals.	—	—

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,4,5-T and 2,4,5-T esters and salts. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item	Production	Receipts		Consumption		Shipments ⁵		End of month stocks
			Domestic sources	Foreign sources	"Orange"	Other products	To military ⁶ defoliant producers	To others	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	
1	TCB		586,860		623,021				761,708
2	TCP, ³ tech.								
3	TCP ⁴								

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101^(R). (See last page for footnotes).

Item No.	Item	Unit	Production	Receipts		Non-military shipments ⁸		End of month stocks
				Domestic sources	Foreign sources	Domestic	Exports	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	
1	2,4-D	lbs. ⁶						
2	2,4,5-T	lbs. ⁶	677,900					125,354
3	"Orange" ¹	gals.						
4	Picloram	lbs.		10	10	10	10	10
5	Tordon 101 ^(R)	gals.						

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item	Unit	Production	Receipts		Non-military shipments ⁸		End of month stocks
				Domestic sources	Foreign sources	Domestic	Exports	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
6	Other salts or esters (Identify)	lbs. ⁶						
7		lbs. ⁶						
8		lbs. ⁶						
9		lbs. ⁶						
10	"Orange" ¹	gals.						002169
11	Alternate to "Orange" ¹⁷	gals.						

FORM 999SA 1-771 (B-1D-02)

Please complete certification on back of form

USCOMM-DC 33376-P67

ALN 01002380

This report is required under Section 705 of the Defense Production Act of 1950, as amended. FORM BDSAF-771 (6-10-67) U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS		BUDGET BUREAU NO. 41-R2402 APPROVAL EXPIRES JUNE 30, 1970 1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below) MONSANTO COMPANY 800 N. Lindbergh Blvd. ST. LOUIS, MISSOURI	
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544		3. Plant name NITRO	
2. Month and year reported JUNE 1967		4. Plant location (See Instructions) NW of Nitro on Viscosa Road in Putnam County, State of West Virginia	
<p align="center">INSTRUCTIONS</p> <p>Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future.</p> <p>File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process.</p> <p>Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1281 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilford County, Maryland, or on State Route 29, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware.</p> <p>Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable.</p> <p>Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions:</p> <ol style="list-style-type: none"> 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak operations. <p>Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report.</p> <p>Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Through you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported.</p> <p>Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency.</p> <p>Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants.</p> <p>Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and pictoram included in military defoliants shipped in the month is required.</p>			
Name of person who should be contacted if questions arise regarding this report E A Cnright		Telephone No. and Area code 304-755-3341	
Certification - The undersigned company and the official executing this certification in its behalf hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.			
Name of company MONSANTO COMPANY		Signature of authorized official	
Address of company 800 N. LINDBERGH, ST. LOUIS, MO.		Title	Date
The U.S. Code, Title 18 (Crimes and Criminal Procedure), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction. The individual company information reported on this form is for use in defense mobilization activities. The unauthorized publication or disclosure of individual company information by Government personnel is prohibited by law, and such personnel having access thereto are subject to fine and imprisonment for unauthorized disclosure.			

Please complete form before signing certification

002171

U.S. GPO: 1967 O-33370-1-6

ALN 01002381

1 00000 10115A P.221 30-10-021

USCOMM-DC 34970-P07

ALN 01002382

FORM BDSAF-771 (8-10-77) U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS		RECEIVED BAFSBS JUNE 29, 1967 1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below) <i>MONSANTO CO.</i> <i>800 N. Lindbergh Blvd.</i> <i>St. Louis,</i> <i>Missouri</i>	
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544		3. Plant name <i>NITRO</i>	
2. Month and year reported <i>May 1967</i>		4. Plant location (See Instructions) <i>NW of Nitro on Viscose Road in Putnam County, State of</i> <i>WEST VIRGINIA</i>	
<p align="center">INSTRUCTIONS</p> <p>Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future.</p> <p>File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process.</p> <p>Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1281 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilford County, Maryland, or on State Route 29, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware.</p> <p>Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable.</p> <p>Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions:</p> <ol style="list-style-type: none"> 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak operations. <p>Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report.</p> <p>Section III - ADDITIONAL CAPACITY-UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported.</p> <p>Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency.</p> <p>Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants.</p> <p>Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and picloram included in military defoliants shipped in the month is required.</p>			
Name of person who should be contacted if questions arise regarding this report <i>E A Cuthbert</i>		Telephone No. and Area code <i>364-755-3341</i>	
Certification - The undersigned company and the official executing this certification in its behalf hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.			
Name of company <i>Monsanto Co.</i>		Signature of authorized official 	
Address of company <i>800 N. Lindbergh, St. Louis, Mo</i>		Title 	Date
The U.S. Code, Title 18 (Crimes and Criminal Procedure), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction. The individual company information reported on this form is for use in defense mobilization activities. The unauthorized publication or disclosure of individual company information by Government personnel is prohibited by law, and such personnel having access thereto are subject to fine and imprisonment for unauthorized disclosure.			

Please complete form before signing certification

USCOMM-UC 33370-116

002175

ALN 01002383

Section I - CAPACITY - INTERMEDIATES AND DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid, (2) "Orange," (3) tetrachlorobenzene, (4) trichlorophenol, (5) picloram, and (6) Tordon 101 ⁽⁸⁾. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☒

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid	lbs.	
2	2,4,5-Trichlorophenoxy acetic acid	lbs.	
3	"Orange" ^{1 2}	gals.	
4	Tetrachlorobenzene	lbs.	
5	Trichlorophenol, technical grade ³	lbs.	
6	Trichlorophenol ⁴	lbs.	
7	Picloram	lbs.	
8	Tordon 101 ^{(8) 5}	gals.	

9. Is same equipment used to produce "trichlorophenol, technical grade," and "trichlorophenol" except for additional processing required on the higher grade material. ☐ Yes ☐ No

Section II - CAPACITY - DEFOLIANTS - This section is to be completed by producers of (1) 2, 4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, or monochloroacetic acid, and/or 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, acetic acid, or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid and (2) "Orange" or Alternate to "Orange." (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☐

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid, salts	lbs. ⁶	
2	2,4-Dichlorophenoxy acetic acid, esters	lbs. ⁶	
3	2,4,5-Trichlorophenoxy acetic acid, salts	lbs. ⁶	
4	2,4,5-Trichlorophenoxy acetic acid, esters	lbs. ⁶	
5	"Orange" ^{1 2}	gals.	
6	Alternate to "Orange" ^{2 7}	gals.	

7. Is the same equipment used to produce esters of 2,4-D and 2,4,5-T? ☐ Yes ☐ No

8. Is there any limitation on the type of esters which the equipment can produce?
If response is "Yes," provide explanation.

☐ Yes ☐ No

Section III - ADDITIONAL CAPACITY, UNDER CONSTRUCTION OR AUTHORIZED - INTERMEDIATES AND DEFOLIANTS
(See last page for footnotes.)

Item No.	Item (a)	Unit (b)	Additional capacity (c)	Approximate completion date (d)
1	2, 4-D	lbs. ⁶	—	—
2	2, 4, 5-T	lbs. ⁶	None	—
3	"Orange" ^{1 2}	gals.	—	002176
4	Alternate to "Orange" ^{2 7}	gals.	—	—

ALN 01002384

1	Trichlorophenol, technical grade ³	lbs.	—	—
2	Trichlorophenol ⁴	lbs.	—	—
3	Picloram	lbs.	—	—
4	Tordon 101 (10) ⁵	gals.	—	—

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,4,5-T and 2,4,5-T esters and salts. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item	Production	Receipts		Consumption		Shipments ^d		End of month stocks
			Domestic sources	Foreign sources	"Orange"	Other products	To military ⁹ defoliant producers	To others	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
1	TCB	—	529,180	—	522,606	—	—	—	318,468
2	TCP, ³ tech.								
3	TCP ⁴								

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101[®]. (See last page for footnotes).

Item No.	Item	Unit	Production	Receipts		Non-military shipments ^a		End of month stocks
				Domestic sources	Foreign sources	Domestic	Exports	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	2,4-D	lbs. ⁶						
2	2,4,5-T	lbs. ⁶	653,850	—	—	—	—	46,000
3	"Orange" ¹	gals.		10	10	10	10	10
4	Picloram	lbs.						
5	Tordon 101®	gals.						

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item	Unit	Production	Receipts		Non-military shipments ⁸		End of month stocks
				Domestic sources	Foreign sources	Domestic	Exports	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
	Other salts or esters (Identify)							
6		lbs. ⁶						
7		lbs. ⁶						
8		lbs. ⁶						
9		lbs. ⁶						
10	"Orange" ¹	gals.						
11	Alternate to "Orange" ¹⁷	gals.						

Item No.	Item	Date on D.D. 250 (b)	Quantity (<i>gals.</i>) (c)
1	"Orange" ^J or Alternate to "Orange" ⁷		
Total			NONE

Item No.	Item	Date on D.D. 250 (b)	Quantity (<i>gals.</i>) (c)
3	Tordon 101 ®		
Total			NONE

2	Technical material contained in total quantity of above material shipped to DoD.		4	Technical material contained in total quantity of above material shipped to DoD.	
	Item (a)	Quantity (lbs., #) (b)		Item (a)	Quantity (lbs., #) (b)
	2,4-D			2,4-D	
	2,4,5-T			Picloram	

	Hours per shift	Shifts per day	Days per week
a. Work schedule for previous month	8	3	7
b. Anticipated work schedule required for maximum production	8	3	7

Footnotes:

¹"Orange" - designation assigned to military defoliant formulation of butyl ester of 2,4-D and 2,4,5-T.

²Based on capacity to produce 2,4,5-T component and regardless of availability of 2,4-D component.

³Trichlorophenol, technical grade - designation assigned to TCP used in production of 2,4,5-T, 2,4,5-T esters and salts, "Orange", or alternate to "Orange". It can also be used to produce other products.

⁴Trichlorophenol - Used to denote a higher grade material than that designated trichlorophenol, technical grade.

⁵Based on capacity to produce picloram.

⁶Acid equivalent.

⁷Alternate to "Orange" - designation assigned to military defoliant formulation of butyl ester of 2,4-D and iso-octyl ester of 2,4,5-T.

⁸Include transfers within the company, except material transferred to another location to be incorporated into military defoliant.

⁹Shipments on rated orders to producers of military defoliants.

¹⁰Include picloram in any form except in Tordon 101 ®, which is to be included in items 5 (d), 5 (e), 5 (f), 5 (g), and 5 (h) Section V.

¹¹On rated orders.

NOTE: Section IV item 1 (c)

Shipped to plant 544,720*
Credit for returned heels 15,540*
Net Received → 529,180 lbs

All 2, 4, 5 T-Acid produced during May shipped to Monsanto's plant WG Krammrich at Sangeot, Illinois except one RR car (64,860 lbs) was shipped to Monsanto's Barton Plant at Luling, Louisiana for conversion to T-Butyl which was then shipped to WG Krammrich Plant Sangeot, Illinois, thus all material to be made into Orange B&B.

This report is required under Section 705 of the Defense Production Act of 1950, as amended.		BUDGET BUREAU NO. 41-13402 APPROVAL EXPIRES JUNE 30, 1970	
FORM BDSAF-771 (8-10-67) U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS		1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below) MONSANTO CO. 800 N. Lindbergh Blvd St. Louis, Missouri	
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544		3. Plant name NITRO	
2. Month and year reported April 1967		4. Plant location (See Instructions) NW of Nitro, in Putnam County, State of West Virginia on Viscose Road	
<p align="center">INSTRUCTIONS</p> <p>Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future.</p> <p>File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process.</p> <p>Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1281 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Willford County, Maryland, or on State Route 29, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware.</p> <p>Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable.</p> <p>Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions:</p> <ol style="list-style-type: none"> 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak operations. <p>Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report.</p> <p>Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported.</p> <p>Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency.</p> <p>Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants.</p> <p>Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and picloram included in military defoliants shipped in the month is required.</p>			
Name of person who should be contacted if questions arise regarding this report E. A. Cutright		Telephone No. and Area code 304-755-3341	
Certification - The undersigned company and the official executing this certification in its behalf hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.			
Name of company Monsanto Co.		Signature of authorized official Wallace P. Smith	
Address of company 800 N. Lindbergh, St. Louis, Mo		Title Tech. Prod. Mgr.	Date 5/22/67
The U.S. Code, Title 18 (Crime and Criminal Procedure), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction. The individual company information reported on this form is for use in defense mobilization activities. The unauthorized publication or disclosure of individual company information by Government personnel is prohibited by law, and such personnel having access thereto are subject to fine and imprisonment for unauthorized disclosure.			

Please complete form before signing certification

002179 M-DC 33370-107

ALN 01002387

Section I - CAPACITY - INTERMEDIATES AND DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid, (2) "Orange," (3) tetrachlorobenzene, (4) trichlorophenol, (5) picloram, and (6) Tordon 101[®]. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☐

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid	lbs.	—
2	2,4,5-Trichlorophenoxy acetic acid	lbs.	575,000 #/mo
3	"Orange" ^{1 2}	gals.	—
4	Tetrachlorobenzene	lbs.	—
5	Trichlorophenol, technical grade ³	lbs.	—
6	Trichlorophenol ⁴	lbs.	—
7	Picloram	lbs.	—
8	Tordon 101 ^{® 5}	gals.	—

9. Is same equipment used to produce "trichlorophenol, technical grade," and "trichlorophenol" except for additional processing required on the higher grade material. ☐ Yes ☐ No

Section II - CAPACITY - DEFOLIANTS - This section is to be completed by producers of (1) 2, 4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, or monochloroacetic acid, and/or 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, acetic acid, or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid and (2) "Orange" or Alternate to "Orange." (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☐

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid, salts	lbs. ⁶	
2	2,4-Dichlorophenoxy acetic acid, esters	lbs. ⁶	
3	2,4,5-Trichlorophenoxy acetic acid, salts	lbs. ⁶	
4	2,4,5-Trichlorophenoxy acetic acid, esters	lbs. ⁶	
5	"Orange" ^{1 2}	gals.	
6	Alternate to "Orange" ^{2 7}	gals.	

7. Is the same equipment used to produce esters of 2,4-D and 2,4,5-T? ☐ Yes ☐ No

8. Is there any limitation on the type of esters which the equipment can produce? ☐ Yes ☐ No
If response is "Yes," provide explanation.

Section III - ADDITIONAL CAPACITY, UNDER CONSTRUCTION OR AUTHORIZED - INTERMEDIATES AND DEFOLIANTS
(See last page for footnotes.)

Item No.	Item (a)	Unit (b)	Additional capacity (c)	Approximate completion date (d)
1	2, 4-D	lbs. ⁶	—	—
2	2,4,5-T	lbs. ⁶	None	—
3	"Orange" ^{1 2}	gals.	—	—

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6	Trichlorophenol, technical grade ³	lbs.	—	—
7	Trichlorophenol ⁴	lbs.	—	—
8	Picloram	lbs.	—	—
9	Tordon 101 [®] 5	gals.	—	—

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,4,5-T and 2,4,5-T esters and salts. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item	Production	Receipts		Consumption		Shipments ⁸		End of month stocks
			Domestic sources	Foreign sources	"Orange"	Other products	To military ⁹ defoliant producers	To others	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
1	TCB	—	533,500	—	219,208	32,950	—	—	21,894
2	TCP, ³ tech.	—	—	—	—	—	—	—	—
3	TCP ⁴	—	—	—	—	—	—	—	—

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101[®]. (See last page for footnotes).

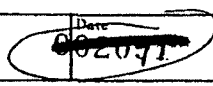
Item No.	Item	Unit	Production	Receipts		Non-military shipments ⁹		End of month stocks
				Domestic sources	Foreign sources	Domestic	Exports	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	2,4-D	lbs. ⁶	—	—	—	—	—	—
2	2,4,5-T	lbs. ⁶	342,700	—	—	32890	—	60,030 60,320
3	"Orange" ¹	gals.	—	—	—	—	—	—
4	Picloram	lbs.	—	— ¹⁰	— ¹⁰	— ¹⁰	— ¹⁰	— ¹⁰
5	Tordon 101 [®]	gals.	—	—	—	—	—	—

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item	Unit	Production	Receipts		Non-military shipments ⁹		End of month stocks
				Domestic sources	Foreign sources	Domestic	Exports	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
6	Other salts or esters (Identify):	lbs. ⁶						
7		lbs. ⁶						
8		lbs. ⁶						
9		lbs. ⁶						
10	"Orange" ¹	gals.						
11	Alternate to "Orange" ¹¹	gals.						

002181

USCOMM-UC 33370-14

This report is required under Section 705 of the Defense Production Act of 1950, as amended.		BUDGET BUREAU NO. 41-R2402 APPROVAL EXPIRES JUNE 30, 1970	
FORM BDSAF-771 (8-10-67) U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS		1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below) MONSANTO COMPANY 800 N. LINDBERGH BLVD. ST. LOUIS, Mo.	
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544		3. Plant name NITRO	
2. Month and year reported JANUARY 1969		4. Plant location (See Instructions) NW OF NITRO ON VISCUSE ROAD IN PUTNAM COUNTY, STATE OF WEST VIRGINIA	
INSTRUCTIONS <p>Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future.</p> <p>File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process.</p> <p>Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1281 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilford County, Maryland, or on State Route 29, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware.</p> <p>Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable.</p> <p>Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions:</p> <ol style="list-style-type: none"> 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak operations. <p>Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report.</p> <p>Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported.</p> <p>Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency.</p> <p>Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants.</p> <p>Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and picloram included in military defoliants shipped in the month is required.</p>			
Name of person who should be contacted if questions arise regarding this report F. A. EAKIN		Telephone No. and Area code (304) 755-3341	
Certification - The undersigned company and the official executing this certification in its behalf hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.			
Name of company MONSANTO COMPANY		Signature of authorized official	
Address of company 800 N. LINDBERGH BLVD. ST. LOUIS, Mo.		Title 	
The U.S. Code, Title 18 (Crimes and Criminal Procedure), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction. The individual company information reported on this form is for use in defense mobilization activities. The unauthorized publication or disclosure of individual company information by Government personnel is prohibited by law, and such personnel having access thereto are subject to fine and imprisonment for unauthorized disclosure.			

Please complete form before signing certification

AUS-004-PC 23370-1167

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ALN17056205

Section I - CAPACITY - INTERMEDIATES AND DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid, (2) "Orange," (3) tetrachlorobenzene, (4) trichlorophenol, (5) picloram, and (6) Tordon 101[®]. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☒

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid	lbs.	
2	2,4,5-Trichlorophenoxy acetic acid	lbs.	
3	"Orange" ^{1 2}	gals.	
4	Tetrachlorobenzene	lbs.	
5	Trichlorophenol, technical grade ³	lbs.	
6	Trichlorophenol ⁴	lbs.	
7	Picloram	lbs.	
8	Tordon 101 ^{® 5}	gals.	

9. Is same equipment used to produce "trichlorophenol, technical grade," and "trichlorophenol" except for additional processing required on the higher grade material. ☐ Yes ☐ No

Section II - CAPACITY - DEFOLIANTS - This section is to be completed by producers of (1) 2, 4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, or monochloroacetic acid, and/or 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, acetic acid, or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid and (2) "Orange" or Alternate to "Orange." (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☐

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid, salts	lbs. ⁶	
2	2,4-Dichlorophenoxy acetic acid, esters	lbs. ⁶	
3	2,4,5-Trichlorophenoxy acetic acid, salts	lbs. ⁶	
4	2,4,5-Trichlorophenoxy acetic acid, esters	lbs. ⁶	
5	"Orange" ^{1 2}	gals.	
6	Alternate to "Orange" ^{2 7}	gals.	

7. Is the same equipment used to produce esters of 2,4-D and 2,4,5-T? ☐ Yes ☐ No

8. Is there any limitation on the type of esters which the equipment can produce? ☐ Yes ☐ No
If response is "Yes," provide explanation.

Section III - ADDITIONAL CAPACITY, UNDER CONSTRUCTION OR AUTHORIZED - INTERMEDIATES AND DEFOLIANTS
(See last page for footnotes.)

Item No.	Item (a)	Unit (b)	Additional capacity (c)	Approximate completion date (d)
1	2, 4-D	lbs. ⁶	—	08/20/10
2	2,4,5-T	lbs. ⁶	NONE	—
3	"Orange" ^{1 2}	gals.	—	—
4	Alternate to "Orange" ^{2 7}	gals.	—	—

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5	Tetrachlorobenzene	lbs.	—	—
6	Trichlorophenol, technical grade ³	lbs.	—	—
7	Trichlorophenol ⁴	lbs.	—	—
8	Picloram	lbs.	—	—
9	Tordon 101 [®] 5	gals.	—	—

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,4,5-T and 2,4,5-T esters and salts. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item (a)	Production (b)	Receipts		Consumption		Shipments ⁶		End of month stocks (i)
			Domestic sources (c)	Foreign sources (d)	"Orange" (e)	Other products (f)	To military ⁹ defoliant producers (g)	To others (h)	
1	TCB		612,860		411,386				437,521
2	TCP, ³ tech.								
3	TCP ⁴								

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101[®]. (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments ⁶		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D	lbs. ⁶						
2	2,4,5-T	lbs. ⁶	385,050					181,850
3	"Orange" ⁷	gals.						
4	Picloram	lbs.		10	10	10	10	10
5	Tordon 101 [®]	gals.						

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments ⁶		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
	Other salts or esters (Identify):							
6		lbs. ⁶						
7		lbs. ⁶						
8		lbs. ⁶						
9		lbs. ⁶						
10	"Orange" ⁷	gals.						
11	Alternate to "Orange" ⁷	gals.						

FORM 803AF-771 (9-10-67)

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Section VII - SHIPMENTS TO DEPARTMENT OF DEFENSE - DEFOLIANTS ^{1,2} (See below for footnotes; attach additional sheets if necessary.)			
Item No.	Item (a)	Date on D.D. 250 (b)	Quantity (gals.) (c)
1	"Orange" ¹ or Alternate to "Orange" ²		
	Total		NONE
2	Technical material contained in total quantity of above material shipped to DoD.		
	Item (a)	Quantity (lbs. ⁶) (b)	
	2,4-D		
	2,4,5-T		
3	Tordon 101 ¹⁰		
	Total		NONE
4	Technical material contained in total quantity of above material shipped to DoD.		
	Item (a)	Quantity (lbs. ⁶) (b)	
	2,4-D		
	Picloram		

Section VIII - WORK SCHEDULE			
	Hours per shift	Shifts per day	Days per week
a. Work schedule for previous month	8	3	7
b. Anticipated work schedule required for maximum production	8	3	7

Footnotes:

¹"Orange" - designation assigned to military defoliant formulation of butyl ester of 2,4-D and 2,4,5-T.

²Based on capacity to produce 2,4,5-T component and regardless of availability of 2,4-D component.

³Trichlorophenol, technical grade - designation assigned to TCP used in production of 2,4,5-T, 2,4,5-T esters and salts, "Orange," or Alternate to "Orange". It can also be used to produce other products.

⁴Trichlorophenol - Used to denote a higher grade material than that designated trichlorophenol, technical grade.

⁵Based on capacity to produce picloram.

⁶Acid equivalent.

⁷Alternate to "Orange" - designation assigned to military defoliant formulation of butyl ester of 2,4-D and iso-octyl ester of 2,4,5-T.

⁸Include transfers within the company, except material transferred to another location to be incorporated into military defoliants.

⁹Shipments on rated orders to producers of military defoliants.

¹⁰Include picloram in any form except in Tordon 101¹⁰, which is to be included in items 5 (d), 5 (e), 5 (f), 5 (g), and 5 (h), Section V.

¹¹On rated orders.

Section IX - REMARKS (Attach additional sheets if necessary.)		NOTE SECTION II	
<p>NOTE SECTION IV</p> <p>TCB:</p> <p>BEG. INVT. 241,047</p> <p>RECEIVED 617,760</p> <p>LESS HEELS 4900</p> <p>NET RECEIVED 612,860</p> <p>TOTAL TO ACCT. FOR 853,907</p> <p>LESS USAGE 421,386</p> <p>ENDING INVT. 432,521</p>		<p>2,4, 5-T:</p> <p>BFG. INVT. 326,090</p> <p>NET PRODUCTION 389,050</p> <p>TOTAL TO ACCT. FOR 711,140</p> <p>LESS SHIPMENTS 532,490</p> <p>178,650</p> <p>CREDIT TO WAREHOUSE 3200</p> <p>ENDING INVT. 181,850</p>	
<p>SHIPMENTS CONSISTED OF 393,800 lbs TO MONSANTO'S W.G. KRAUMRICH PLANT AT SAGHET, ILL.; 100,990 lbs TO AM CHEM; 34,500 lbs TO DI CHEM; AND 3220 lbs TO MILLER CHEMICAL AND FERTILIZER CORP.</p>			

This report is required under Section 705 of the Defense Production Act of 1950, as amended.		BUDGET BUREAU NO. 41-R2403 APPROVAL EXPIRES JUNE 30, 1970	
FORM BDSAF-771 (6-10-67) U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS		1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below) MONSANTO COMPANY 500 N. LINDBERGH BLVD. ST. LOUIS, MO.	
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544			
2. Month and year reported FEBRUARY 1969		3. Plant name NITRO	
4. Plant location (See Instructions) NW OF NITRO ON VISCUSE ROAD IN PUTNAM COUNTY STATE OF WEST VIRGINIA			
INSTRUCTIONS <p>Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future.</p> <p>File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process.</p> <p>Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1281 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilford County, Maryland, or on State Route 29, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware.</p> <p>Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable.</p> <p>Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions:</p> <ol style="list-style-type: none"> 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak operations. <p>Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report.</p> <p>Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported.</p> <p>Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency.</p> <p>Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants.</p> <p>Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and picloram included in military defoliants shipped in the month is required.</p>			
Name of person who should be contacted if questions arise regarding this report		Telephone No. and Area code	
Certification - The undersigned company and the official executing this certification in its behalf hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.			
Name of company MONSANTO COMPANY		Signature of authorized official	
Address of company 500 N. LINDBERGH BLVD. ST. LOUIS, MO.		Title	Date
The U.S. Code, Title 18 (Crimes and Criminal Procedure), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction. The individual company information reported on this form is for use in defense mobilization activities. The unauthorized publication or disclosure of individual company information by Government personnel is prohibited by law, and such personnel having access thereto are subject to fine and imprisonment for unauthorized disclosure.			

Please complete form before signing certification

ALN17056209

Section I - CAPACITY - INTERMEDIATES AND DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid, (2) "Orange," (3) tetrachlorobenzene, (4) trichlorophenol, (5) picloram, and (6) Tordon 101[®]. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☒

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid	lbs.	
2	2,4,5-Trichlorophenoxy acetic acid	lbs.	
3	"Orange" ^{1 2}	gals.	
4	Tetrachlorobenzene	lbs.	
5	Trichlorophenol, technical grade ³	lbs.	
6	Trichlorophenol ⁴	lbs.	
7	Picloram	lbs.	
8	Tordon 101 ^{® 5}	gals.	

9. Is same equipment used to produce "trichlorophenol, technical grade," and "trichlorophenol" except for additional processing required on the higher grade material. ☐ Yes ☐ No

Section II - CAPACITY - DEFOLIANTS - This section is to be completed by producers of (1) 2, 4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, or monochloroacetic acid, and/or 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, acetic acid, or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid and (2) "Orange" or Alternate to "Orange." (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☒

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid, salts	lbs. ⁶	
2	2,4-Dichlorophenoxy acetic acid, esters	lbs. ⁶	
3	2,4,5-Trichlorophenoxy acetic acid, salts	lbs. ⁶	
4	2,4,5-Trichlorophenoxy acetic acid, esters	lbs. ⁶	
5	"Orange" ^{1 2}	gals.	
6	Alternate to "Orange" ^{2 7}	gals.	

7. Is the same equipment used to produce esters of 2,4-D and 2,4,5-T? ☐ Yes ☐ No

8. Is there any limitation on the type of esters which the equipment can produce? ☐ Yes ☐ No
If response is "Yes," provide explanation.

Section III - ADDITIONAL CAPACITY, UNDER CONSTRUCTION OR AUTHORIZED - INTERMEDIATES AND DEFOLIANTS
(See last page for footnotes.)

Item No.	Item (a)	Unit (b)	Additional capacity (c)	Approximate completion date (d)
1	2, 4-D	lbs. ⁶	—	—
2	2,4,5-T	lbs. ⁶	NONE	—
3	"Orange" ^{1 2}	gals.	—	002056
4	Alternate to "Orange" ^{2 7}	gals.	—	—

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5.	Tetrachlorobenzene	lbs.	—	—
6	Trichlorophenol, technical grade ³	lbs.	—	—
7	Trichlorophenol ⁴	lbs.	—	—
8	Picloram	lbs.	—	—
9	Tordon 101 [®] 5	gals.	—	—

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,4,5-T and 2,4,5-T esters and salts. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item	Production	Receipts		Consumption		Shipments ⁶		End of month stocks
			Domestic sources	Foreign sources	"Orange"	Other products	To military ⁷ defoliant producers	To others	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
1	TCB		372,520		422,779				392,262
2	TCP, ³ tech.								
3	TCP ⁴								

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101[®]. (See last page for footnotes).

Item No.	Item	Unit	Production	Receipts		Non-military shipments ⁶		End of month stocks
				Domestic sources	Foreign sources	Domestic	Exports	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	2,4-D	lbs. ⁶	407,100					212,330
2	2,4,5-T	lbs. ⁶						
3	"Orange" ¹	gals.						
4	Picloram	lbs.		10	10	10	10	10
5	Tordon 101 [®]	gals.						

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item	Unit	Production	Receipts		Non-military shipments ⁶		End of month stocks
				Domestic sources	Foreign sources	Domestic	Exports	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
	Other salts or esters (Identify):							
6		lbs. ⁶						
7		lbs. ⁶						
8		lbs. ⁶						
9		lbs. ⁶						
10	"Orange" ¹	gals.						
11	Alternate to "Orange" ¹⁷	gals.						

FORM INDIAF-771 (8-10-67)

Please continue on reverse

USCOM-DC 33370-PST

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ALN17056211

Section VII - SHIPMENTS TO DEPARTMENT OF DEFENSE - DEFOLIANTS ¹ (See below for footnotes; attach additional sheets if necessary.)							
Item No.	Item	Date on D.D. 250	Quantity (gals.)	Item No.	Item	Date on D.D. 250	Quantity (gals.)
	(a)	(b)	(c)		(a)	(b)	(c)
1	"Orange" ¹ or Alternate to "Orange" ²			3	Tordon 101 ³		
Total			NONE	Total			NONE
2	Technical material contained in total quantity of above material shipped to DoD.			4	Technical material contained in total quantity of above material shipped to DoD.		
	Item	Quantity (lbs. ⁴)			Item	Quantity (lbs. ⁴)	
	(a)	(b)			(a)	(b)	
	2,4-D				2,4-D		
	2,4,5-T				Picloram		
Section VIII - WORK SCHEDULE							
			Hours per shift	Shifts per day		Days per week	
a. Work schedule for previous month			8	3		7	
b. Anticipated work schedule required for maximum production			8	3		7	
Footnotes:							
1"Orange" - designation assigned to military defoliant formulation of butyl ester of 2,4-D and 2,4,5-T.							
2Based on capacity to produce 2,4,5-T component and regardless of availability of 2,4-D component.							
3Trichlorophenol, technical grade - designation assigned to TCP used in production of 2,4,5-T, 2,4,5-T esters and salts, "Orange," or Alternate to "Orange". It can also be used to produce other products.							
4Trichlorophenol - Used to denote a higher grade material than that designated trichlorophenol, technical grade.							
5Based on capacity to produce picloram.							
6Acid equivalent.							
7Alternate to "Orange" - designation assigned to military defoliant formulation of butyl ester of 2,4-D and iso-octyl ester of 2,4,5-T.							
8Include transfers within the company, except material transferred to another location to be incorporated into military defoliants.							
9Shipments on rated orders to producers of military defoliants.							
10Include picloram in any form except in Tordon 101 ³ , which is to be included in items 5 (d), 5 (e), 5 (f), 5 (g), and 5 (h), Section V.							
11On rated orders.							
Section IX - REMARKS (Attach additional sheets if necessary.)							
NOTE SECTION IV				NOTE SECTION IV			
2, 4, 5-T				TCB			
BEG. INVT. 197,040				BEG. INVT 432,521			
PRODUCED 407,100				RECEIVED 383,720			
TOTAL TO ACCT. FOR 604,140				CREDIT ON RETURNS 1,700			
SHIPPED 391,860				TOTAL TO ACCT. FOR 815,041			
ENDING INVT 212,330				LESS USAGE 422,779			
				ENDING INVT. 392,262			
191,740 lbs WERE SHIPPED TO MONSANTO'S WG KRAUMERICH PLANT AT SANGHET, ILLINOIS. 240,130 lbs WAS SHIPPED TO AMI CHEM PRODUCTS, INC. AT AMBLER, PA.							

8305318

This report is required under Section 705 of the Defense Production Act of 1950, as amended.		BUDGET BUREAU NO. 41-R2402 APPROVAL EXPIRES JUNE 30, 1970	
FORM BDSAF-771 (5-10-67) U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS		1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below) MONSANTO COMPANY 800 N. LINDBERGH BLVD. ST. LOUIS, MO.	
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544			
2. Month and year reported DECEMBER 1968		3. Plant name NITRO	
4. Plant location (See Instructions) NW OF NITRO ON VISCOSE ROAD IN PUTNAM COUNTY, STATE OF WEST VIRGINIA			
<p align="center">INSTRUCTIONS</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p>Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future.</p> <p>File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process.</p> <p>Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1281 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilford County, Maryland, or on State Route 29, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware.</p> <p>Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable.</p> <p>Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions:</p> <ol style="list-style-type: none"> 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak </div> <div style="width: 48%;"> <p>Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report.</p> <p>Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported.</p> <p>Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency.</p> <p>Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants.</p> <p align="center">002100</p> <p>Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T acid, and picloram included in military defoliants shipped in the month is</p> </div> </div>			

6	Trichlorophenol, technical grade ³	lbs.	—	—
7	Trichlorophenol ⁴	lbs.	—	—
8	Picloram	lbs.	—	—
9	Tordon 101 [®] 5	gals.	—	—

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,4,5-T and 2,4,5-T esters and salts. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item (a)	Production (b)	Receipts		Consumption		Shipments ⁸		End of month stocks (i)
			Domestic sources (c)	Foreign sources (d)	"Orange" (e)	Other products (f)	To military ⁹ defoliant producers (g)	To others (h)	
1	TCB		450,940		560,985				241,047
2	TCP, ³ tech.								
3	TCP ⁴								

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101[®]. (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments ⁸		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D	lbs. ⁶						
2	2,4,5-T	lbs. ⁶	557,220					326,090
3	"Orange" ¹	gals.						
4	Picloram	lbs.		10	10	10	10	10
5	Tordon 101 [®]	gals.						

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments ⁸		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
	Other salts or esters (Identify):							

[illegible]

Section VIII - WORK SCHEDULE

	Hours per shift	Shifts per day	Days per week
a. Work schedule for previous month	8	3	7
b. Anticipated work schedule required for maximum production	8	3	7

Footnotes:

- 1 "Orange" - designation assigned to military defoliant formulation of butyl ester of 2,4-D and 2,4,5-T.
2 Based on capacity to produce 2,4,5-T component and regardless of availability of 2,4-D component.
3 Trichlorophenol, technical grade - designation assigned to TCP used in production of 2,4,5-T, 2,4,5-T esters and salts, "Orange," or alternate to "Orange". It can also be used to produce other products.
4 Trichlorophenol - Used to denote a higher grade material than that designated trichlorophenol, technical grade.
5 Based on capacity to produce picloram.
6 Acid equivalent.
7 Alternate to "Orange" - designation assigned to military defoliant formulation of butyl ester of 2,4-D and iso-octyl ester of 2,4,5-T.
8 Include transfers within the company, except material transferred to another location to be incorporated into military defoliants.
9 Shipments on rated orders to producers of military defoliants.
10 Include picloram in any form except in Tordon 101 ®, which is to be included in items 5 (d), 5 (e), 5 (f), 5 (g), and 5 (h), Section V.
11 On rated orders.

Section IX - REMARKS (Attach additional sheets if necessary.)

NOTE SECTION IV:

TCB:

BEG. INVT. 351,092

RECEIVED 458,940

LESS HEELS 8,000

NET RECEIVED 450,940

TOTAL TO ACCT. FOR 802,032

LESS USAGE 560,935

ENDING INVT. 241,047

NOTE SECTION V:

2, 4, 5-T:

BEG. INVT. 160,300

NET PRODUCTION 557,220

TOTAL TO ACCT. FOR 717,520

LESS SHIPMENTS 391,430

ENDING INVT. 326,090

4830 LBS. OF MATERIAL WAS SHIPPED TO CONSOLIDATED CHEMICAL CO.
IN BELLE GLADE, FLORIDA. THE REMAINDER WAS SHIPPED TO MONSANTO'S
W.G. KRUMMRICH PLANT AT SAUGET, ILL. FOR PROCESSING INTO
ORANGE BAND.

This report is required under Section 705 of the Defense Production Act of 1950, as amended.		BUDGET BUREAU NO. 41-H2402 APPROVAL EXPIRES JUNE 30, 1970	
Form BDSAF-771 (6-10-67) U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS		1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below) MONSANTO COMPANY 800 N. LINDBERGH BLVD. ST. LOUIS, MO.	
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544		3. Plant name NITRO	
2. Month and year reported NOVEMBER 1968			
4. Plant location (See Instructions) NW OF NITRO ON VISCOSSE ROAD IN PUTNAM COUNTY, STATE OF WEST VIRGINIA			
<p align="center">INSTRUCTIONS</p> <p>Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future.</p> <p>File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process.</p> <p>Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1281 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilford County, Maryland, or on State Route 29, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware.</p> <p>Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable.</p> <p>Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions:</p> <ol style="list-style-type: none"> 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak operations. <p>Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report.</p> <p>Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported.</p> <p>Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency.</p> <p>Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants.</p> <p>Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and picloram included in military defoliants shipped in the month is required.</p>			
Name of person who should be contacted if questions arise regarding this report E. A. CUTRIGHT		Telephone No. and Area code (304) 755-3341	
Certification - The undersigned company and the official executing this certification in its behalf hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.			
Name of company MONSANTO COMPANY		Signature of authorized official	
Address of company 800 N. LINDBERGH BLVD. ST. LOUIS, MO.		Title	Date
The U.S. Code, Title 18 (Crimes and Criminal Procedure), Section 1001, makes it a criminal offense to make a willfully false statement, knowing the statement to be false, in any communication to or by any department or agency of the United States as to any matter within its jurisdiction. The individual company information reported on this form is for use in defense mobilization activities. The unauthorized publication or disclosure of individual company information by Government personnel is prohibited by law, and such personnel having access thereto are subject to fine and imprisonment for unauthorized disclosure.			
Please complete form before signing certification			

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Section I - CAPACITY - INTERMEDIATES AND DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid, (2) "Orange," (3) tetrachlorobenzene, (4) trichlorophenol, (5) picloram, and (6) Tordon 101[®]. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☒

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid	lbs.	
2	2,4,5-Trichlorophenoxy acetic acid	lbs.	
3	"Orange" ^{1 2}	gals.	
4	Tetrachlorobenzene	lbs.	
5	Trichlorophenol, technical grade ³	lbs.	
6	Trichlorophenol ⁴	lbs.	
7	Picloram	lbs.	
8	Tordon 101 ^{® 5}	gals.	

9. Is same equipment used to produce "trichlorophenol, technical grade," and "trichlorophenol" except for additional processing required on the higher grade material. ☐ Yes ☐ No

Section II - CAPACITY - DEFOLIANTS - This section is to be completed by producers of (1) 2, 4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, or monochloroacetic acid, and/or 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, acetic acid, or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid and (2) "Orange" or Alternate to "Orange." (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☐

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid, salts	lbs. ⁶	
2	2,4-Dichlorophenoxy acetic acid, esters	lbs. ⁶	
3	2,4,5-Trichlorophenoxy acetic acid, salts	lbs. ⁶	
4	2,4,5-Trichlorophenoxy acetic acid, esters	lbs. ⁶	
5	"Orange" ^{1 2}	gals.	
6	Alternate to "Orange" ^{2 7}	gals.	

7. Is the same equipment used to produce esters of 2,4-D and 2,4,5-T? ☐ Yes ☐ No

8. Is there any limitation on the type of esters which the equipment can produce? ☐ Yes ☐ No
If response is "Yes," provide explanation.

Section III - ADDITIONAL CAPACITY, UNDER CONSTRUCTION OR AUTHORIZED - INTERMEDIATES AND DEFOLIANTS
(See last page for footnotes.)

Item No.	Item (a)	Unit (b)	Additional capacity (c)	Approximate completion date (d)
1	2, 4-D	lbs. ⁶	—	—
2	2,4,5-T	lbs. ⁶	NONE	—
3	"Orange" ^{1 2}	gals.	—	—
4	Alternate to "Orange" ^{2 7}	gals.	—	—

8365323

5	Tetrachlorobenzene	lbs.	—	—
6	Trichlorophenol, technical grade ³	lbs.	—	—
7	Trichlorophenol ⁴	lbs.	—	—
8	Picloram	lbs.	—	—
9	Tordon 101 ⁽¹⁾ 5	gals.	—	—

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,4,5-T and 2,4,5-T esters and salts. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item (a)	Production (b)	Receipts		Consumption		Shipments ⁸		End of month stocks (i)
			Domestic sources (c)	Foreign sources (d)	"Orange" (e)	Other products (f)	To military ⁹ defoliant producers (g)	To others (h)	
1	TCB		535,580		613,260				351,092
2	TCP, ³ tech.								
3	TCP ⁴								

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101⁽¹⁾. (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments ⁸		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D	lbs. ⁶						
2	2,4,5-T	lbs. ⁶	582,870					160,300
3	"Orange" ¹	gals.						
4	Picloram	lbs.		10	10	10	10	10
5	Tordon 101 ⁽¹⁾	gals.						

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments ⁸		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
	Other salts or esters (identify):							
6		lbs. ⁶						
7		lbs. ⁶						
8		lbs. ⁶						
9		lbs. ⁶						
10	"Orange" ¹	gals.						
11	Alternate to "Orange"	gals.						

FORM NO. 1-11 (1-10-07)

Please continue on reverse

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FORM 1123-A-1/1 (5-14-87)

Please complete certification on back of form

ALN17056219

This report is required under Section 705 of the Defense Production Act of 1950, as amended.		BUDGET BUREAU NO. 41-R7407 APPROVAL EXPIRES JUNE 30, 1970	
FORM BDSAF-771 (8-10-67) U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS		1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below) MONSANTO COMPANY 800 N. LINDBERGH BLVD. ST. LOUIS, MO.	
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544		3. Plant name NITRO	
2. Month and year reported OCTOBER 1968		4. Plant location (See Instructions) NW of NITRO ON VISCOSSE ROAD IN PUTNAM COUNTY, STATE OF WEST VIRGINIA	
INSTRUCTIONS <p>Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future.</p> <p>File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process.</p> <p>Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1234 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilford County, Maryland, or on State Route 29, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware.</p> <p>Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable.</p> <p>Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions:</p> <ol style="list-style-type: none"> 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak operations. <p>Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report.</p> <p>Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported.</p> <p>Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency.</p> <p>Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants.</p> <p>Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and picloram included in military defoliants shipped in the month is required.</p>			
Name of person who should be contacted if questions arise regarding this report E. A. CUTRIGHT		Telephone No. and Area code (304) 755-3341	
Certification - The undersigned company and the official executing this certification in its behalf hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.			
Name of company MONSANTO COMPANY		Signature of authorized official	
Address of company 800 N LINDBERGH BLVD ST. LOUIS, MO.		Title	Date
The U.S. Code, Title 18 (Crimes and Criminal Procedure), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction. The individual company or individual government personnel is prohibited by law, and such personnel having access thereto are subject to fines and imprisonment for unauthorized disclosure.			

Please complete form before signing certification

USCOMM-DC 33370-000

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ALN17056220

Section I - CAPACITY - INTERMEDIATES - DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid, (2) "Orange," (3) tetrachlorobenzene, (4) trichlorophenol, (5) picloram, and (6) Tordon 101[®]. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☒

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid	lbs.	
2	2,4,5-Trichlorophenoxy acetic acid	lbs.	
3	"Orange" 1 2	gals.	
4	Tetrachlorobenzene	lbs.	
5	Trichlorophenol, technical grade ³	lbs.	
6	Trichlorophenol ⁴	lbs.	
7	Picloram	lbs.	
8	Tordon 101 [®] 5	gals.	

9. Is same equipment used to produce "trichlorophenol, technical grade," and "trichlorophenol" except for additional processing required on the higher grade material. ☐ Yes ☐ No

Section II - CAPACITY - DEFOLIANTS - This section is to be completed by producers of (1) 2, 4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, or monochloroacetic acid, and/or 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, acetic acid, or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid and (2) "Orange" or Alternate to "Orange." (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☐

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid, salts	lbs. ⁶	
2	2,4-Dichlorophenoxy acetic acid, esters	lbs. ⁶	
3	2,4,5-Trichlorophenoxy acetic acid, salts	lbs. ⁶	
4	2,4,5-Trichlorophenoxy acetic acid, esters	lbs. ⁶	
5	"Orange" 1 2	gals.	
6	Alternate to "Orange" 2 7	gals.	

7. Is the same equipment used to produce esters of 2,4-D and 2,4,5-T? ☐ Yes ☐ No

8. Is there any limitation on the type of esters which the equipment can produce? ☐ Yes ☐ No
If response is "Yes," provide explanation.

Section III - ADDITIONAL CAPACITY, UNDER CONSTRUCTION OR AUTHORIZED - INTERMEDIATES AND DEFOLIANTS
(See last page for footnotes.)

Item No.	Item (a)	Unit (b)	Additional capacity (c)	Approximate completion date (d)
1	2, 4-D	lbs. ⁶	—	06-21-08
2	2,4,5-T	lbs. ⁶	NONE	—
3	"Orange" 1 2	gals.	—	—
4	Alternate to "Orange" 2 7	gals.	—	—

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5	Tetrachlorobenzene	lbs.		
6	Trichlorophenol, technical grade ³	lbs.		
7	Trichlorophenol ⁴	lbs.		
8	Picloram	lbs.		
9	Tordon 101 (R) ⁵	gals.		

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,4,5-T and 2,4,5-T esters and salts. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item (a)	Production (b)	Receipts		Consumption		Shipments ⁸		End of month stocks (i)
			Domestic sources (c)	Foreign sources (d)	"Orange" (e)	Other products (f)	To military ⁹ defoliant producers (g)	To others (h)	
1	TCB		540,560		437,729				423,772
2	TCP, ³ tech.								
3	TCP ⁴								

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101 (R). (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments ⁸		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D	lbs. ⁶						
2	2,4,5-T	lbs. ⁶	417,725					141,313
3	"Orange" ¹	gals.						
4	Picloram	lbs.		10	10	10	10	10
5	Tordon 101 (R)	gals.						

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments ⁸		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
	Other salts or esters (Identify):							
6		lbs. ⁶						
7		lbs. ⁶						
8		lbs. ⁶						
9		lbs. ⁶						
10	"Orange" ¹	gals.						
11	Alternate to "Orange" ¹⁷	gals.						

FORM DCSAF-771 (6-10-67)

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USCOMA-DC 33370-P87

8365328

FD-302 (Rev. 5-22-64)

USCOMM-OC 33370-P1

ALN17056223

This report is required under Section 705 of the Defense Production Act of 1950, as amended.		BUDGET BUREAU NO. 41-R2402 APPROVAL EXPIRES JUNE 30, 1970	
FORM BDSAF-771 (9-10-67) U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS		1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below) MONSANTO COMPANY 900 N. LINDBERGH BLVD. ST. LOUIS, Mo.	
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544		3. Plant name NITRO	
2. Month and year reported SEPTEMBER 1965			
4. Plant location (See Instructions) NW OF NITRO ON VISCOSSE ROAD IN PUTNAM COUNTY, STATE OF WEST VIRGINIA			
INSTRUCTIONS <p>Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future.</p> <p>File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process.</p> <p>Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1281 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilford County, Maryland, or on State Route 39, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware.</p> <p>Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable.</p> <p>Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions:</p> <ol style="list-style-type: none"> 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak operations. <p>Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report.</p> <p>Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported.</p> <p>Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency.</p> <p>Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants.</p> <p>Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and picloram included in military defoliants shipped in the month is required.</p>			
Name of person who should be contacted if questions arise regarding this report E. A. CUTRIGHT		Telephone No. and Area code (3-4) 755-3341	
Certification - The undersigned company and the official executing this certification in its behalf hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.			
Name of company MONSANTO COMPANY		Signature of authorized official [Signature]	
Address of company 900 N. LINDBERGH BLVD. ST. LOUIS, MO.		Title DO2111	
The U.S. Code, Title 18 (Crimes and Criminal Procedure), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction. The individual company information reported on this form is for use in defense mobilization activities. The unauthorized publication or disclosure of individual company information by Government personnel is prohibited by law, and such personnel having access thereto are subject to fine and imprisonment for unauthorized disclosure.			

Please complete form before signing certification

USCOMB-DC 33370-1

8365330

ALN17056224

Section I - CAPACITY - INTERMEDIATES AND DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid, (2) "Orange," (3) tetrachlorobenzene, (4) trichlorophenol, (5) picloram, and (6) Tordon 101 ⁽⁹⁾. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☒

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid	lbs.	
2	2,4,5-Trichlorophenoxy acetic acid	lbs.	
3	"Orange" ^{1 2}	gals.	
4	Tetrachlorobenzene	lbs.	
5	Trichlorophenol, technical grade ³	lbs.	
6	Trichlorophenol ⁴	lbs.	
7	Picloram	lbs.	
8	Tordon 101 ^{(9) 5}	gals.	

9. Is same equipment used to produce "trichlorophenol, technical grade," and "trichlorophenol" except for additional processing required on the higher grade material. ☐ Yes ☐ No

Section II - CAPACITY - DEFOLIANTS - This section is to be completed by producers of (1) 2, 4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, or monochloroacetic acid, and/or 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, acetic acid, or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid and (2) "Orange" or Alternate to "Orange." (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☐

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid, salts	lbs. ⁶	
2	2,4-Dichlorophenoxy acetic acid, esters	lbs. ⁶	
3	2,4,5-Trichlorophenoxy acetic acid, salts	lbs. ⁶	
4	2,4,5-Trichlorophenoxy acetic acid, esters	lbs. ⁶	
5	"Orange" ^{1 2}	gals.	
6	Alternate to "Orange" ^{2 7}	gals.	

7. Is the same equipment used to produce esters of 2,4-D and 2,4,5-T? ☐ Yes ☐ No

8. Is there any limitation on the type of esters which the equipment can produce?
If response is "Yes," provide explanation.

Section III - ADDITIONAL CAPACITY, UNDER CONSTRUCTION OR AUTHORIZED - INTERMEDIATES AND DEFOLIANTS
(See last page for footnotes.)

Item No.	Item (a)	Unit (b)	Additional capacity (c)	Approximate completion date
1	2, 4-D	lbs. ⁶		00-11-12
2	2,4,5-T	lbs. ⁶	NONE	
3	"Orange" ^{1 2}	gals.		8365331
4	Alternate to "Orange" ^{2 7}	gals.		

5	Tetrachlorobenzene	lbs.		
6	Trichlorophenol, technical grade ³	lbs.		
7	Trichlorophenol ⁴	lbs.		
8	Picloram	lbs.		
9	Tordon 101 (R) ⁵	gals.		

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,4,5-T and 2,4,5-T esters and salts. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item (a)	Production (b)	Receipts		Consumption		Shipments ⁶		End of month stocks (i)
			Domestic sources (c)	Foreign sources (d)	"Orange" (e)	Other products (f)	To military ⁷ defoliant producers (g)	To others (h)	
1	TCB								
2	TCP ² tech.	620,160			844,912				
3	TCP ⁴								375,941

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101 (R). (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments ⁸		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D	lbs. ⁶						
2	2,4,5-T	lbs. ⁶	659,995					
3	"Orange" ¹	gals.						155,880
4	Picloram	lbs.		10	10	10	10	10
5	Tordon 101 (R)	gals.						

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments ⁸		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
6	Other salts or esters (Identify):	lbs. ⁶						
7		lbs. ⁶						
8		lbs. ⁶						
9		lbs. ⁶						
10	"Orange" ¹	gals.						000,110
11	Alternate to "Orange" ⁷	gals.						

FORM NISAF-771 (8-10-87)

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USCOMM-111 33310-107

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FORM 8034-771 (3-10-87) Please complete certification on face of form

ALN17056227

This report is required under Section 705 of the Defense Production Act of 1950, as amended.		BUDGET BUREAU NO. 41-R2401 APPROVAL EXPIRES JUNE 30, 1970	
FORM BDSAF-771 (6-10-67) U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS		1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below) MONSANTO COMPANY 500 N. LINDBERGH BLVD ST. LOUIS, MO.	
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544		3. Plant name NITRO	
2. Month and year reported AUGUST 1968			
4. Plant location (See instructions) NW OF NITRO ON VISCOSSE ROAD IN PUTNAM COUNTY STATE OF WEST VIRGINIA			
INSTRUCTIONS <p>Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future.</p> <p>File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process.</p> <p>Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1281 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilford County, Maryland, or on State Route 29, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware.</p> <p>Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable.</p> <p>Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions:</p> <ol style="list-style-type: none"> 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak operations. <p>Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report.</p> <p>Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported.</p> <p>Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency.</p> <p>Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants.</p> <p>Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and picloram included in military defoliants shipped in the month is required.</p>			
Name of person who should be contacted if questions arise regarding this report E. A. CUTRIGHT		Telephone No. and Area code (314) 755-3341	
Certification - The undersigned company and the official executing this certification in its behalf hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.			
Name of company MONSANTO COMPANY		Signature of authorized official	
Address of company 500 N. LINDBERGH BLVD. ST. LOUIS, MO.		Title	Date
The U.S. Code, Title 18 (Crimes and Criminal Procedure), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction. The individual company information reported on this form is for use in defense mobilization activities. The unauthorized publication or disclosure of individual company information by Government personnel is prohibited by law, and such personnel having access thereto are subject to fine and imprisonment for unauthorized disclosure.			

Please complete form before signing certification

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Section I - CAPACITY - INTERMEDIATES AND DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid, (2) "Orange," (3) tetrachlorobenzene, (4) trichlorophenol, (5) picloram, and (6) Tordon 101[®]. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☒

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid	lbs.	
2	2,4,5-Trichlorophenoxy acetic acid	lbs.	
3	"Orange" ^{1 2}	gals.	
4	Tetrachlorobenzene	lbs.	
5	Trichlorophenol, technical grade ³	lbs.	
6	Trichlorophenol ⁴	lbs.	
7	Picloram	lbs.	
8	Tordon 101 ^{® 5}	gals.	

9. Is same equipment used to produce "trichlorophenol, technical grade," and "trichlorophenol" except for additional processing required on the higher grade material. ☐ Yes ☐ No

Section II - CAPACITY - DEFOLIANTS - This section is to be completed by producers of (1) 2, 4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, or monochloroacetic acid, and/or 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, acetic acid, or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid and (2) "Orange" or Alternate to "Orange." (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☐

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid, salts	lbs. ⁶	
2	2,4-Dichlorophenoxy acetic acid, esters	lbs. ⁶	
3	2,4,5-Trichlorophenoxy acetic acid, salts	lbs. ⁶	
4	2,4,5-Trichlorophenoxy acetic acid, esters	lbs. ⁶	
5	"Orange" ^{1 2}	gals.	
6	Alternate to "Orange" ^{3 7}	gals.	

7. Is the same equipment used to produce esters of 2,4-D and 2,4,5-T? ☐ Yes ☐ No

8. Is there any limitation on the type of esters which the equipment can produce? ☐ Yes ☐ No
If response is "Yes," provide explanation.

Section III - ADDITIONAL CAPACITY, UNDER CONSTRUCTION OR AUTHORIZED - INTERMEDIATES AND DEFOLIANTS
(See last page for footnotes.)

Item No.	Item (a)	Unit (b)	Additional capacity (c)	Approximate completion date (d)
1	2, 4-D	lbs. ⁶		0001-10
2	2,4,5-T	lbs. ⁶	NONE	
3	"Orange" ^{1 2}	gals.		
4	Alternate to "Orange" ^{3 7}	gals.		

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6	Trichlorophenol, technical grade ³	lbs.	—	—
7	Trichlorophenol ⁴	lbs.	—	—
8	Picloram	lbs.	—	—
9	Tordon 101 [®] 5	gals.	—	—

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,4,5-T and 2,4,5-T esters and salts. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item (a)	Production (b)	Receipts		Consumption		Shipments ⁶		End of month stocks (i)
			Domestic sources (c)	Foreign sources (d)	"Orange" (e)	Other products (f)	To military ⁹ defoliant producers (g)	To others (h)	
1	TCB		614,900		552,428				356,591
2	TCP, ³ tech.								
3	TCP ⁴								

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101[®]. (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments ⁶		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D	lbs. ⁶						
2	2,4,5-T	lbs. ⁶	647,650					544,400
3	"Orange" ¹	gals.						
4	Picloram	lbs.		10	10	10	10	10
5	Tordon 101 [®]	gals.						

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments ⁶		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
	Other salts or esters. (Identify):							
6		lbs. ⁶						
7		lbs. ⁶						
8		lbs. ⁶						
9		lbs. ⁶						
10	"Orange" ¹	gals.						
11	Alternate to "Orange" ¹⁷	gals.						

FORM 803AF-771 (8-10-87)

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FORM UFGAM-771 (5-10-67)

Please complete certification on face of form

8365337

This report is required under Section 705 of the Defense Production Act of 1950, as amended. FORM BDSAF-771 (8-10-67) U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS		BUDGET BUREAU NO. 41-R2402 APPROVAL EXPIRES JUNE 30, 1970	
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544		1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below) MONSANTO COMPANY 800 N. LINDBERGH BLVD. ST. LOUIS, Mo.	
2. Month and year reported JULY, 1968		3. Plant name NITRO	
4. Plant location (See Instructions) NW OF NITRO ON VISCOSSE ROAD IN PUTNAM COUNTY STATE OF WEST VIRGINIA			
INSTRUCTIONS <p>Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future.</p> <p>File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process.</p> <p>Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1281 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilford County, Maryland, or on State Route 29, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware.</p> <p>Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable.</p> <p>Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions:</p> <ol style="list-style-type: none"> 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak operations. <p>Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report.</p> <p>Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported.</p> <p>Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency.</p> <p>Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants.</p> <p>Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and picloram included in military defoliants shipped in the month is required.</p>			
Name of person who should be contacted if questions arise regarding this report E. A. CUTRIGHT		Telephone No. and Area code (304) 755-3341	
Certification - The undersigned company and the official executing this certification in its behalf hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.			
Name of company MONSANTO COMPANY		Signature of authorized official 000118	
Address of company 800 N. LINDBERGH BLVD ST. LOUIS, Mo.		Title 000118	
The U.S. Code, Title 18 (Crimes and Criminals) Procedure, Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction. The individual company information reported on this form is for use in defense mobilization activities. The unauthorized publication or disclosure of individual company information by Government personnel is prohibited by law, and such personnel having access thereto are subject to fine and imprisonment for unauthorized disclosure.			

Please complete form before signing certification

USCOMM-DC 7-73000-1

8365338

ALN17056232

Section I - CAPACITY - INTERMEDIATES AND DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid, (2) "Orange," (3) tetrachlorobenzene, (4) trichlorophenol, (5) picloram, and (6) Tordon 101[®]. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☒

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid	lbs.	
2	2,4,5-Trichlorophenoxy acetic acid	lbs.	
3	"Orange" 1 2	gals.	
4	Tetrachlorobenzene	lbs.	
5	Trichlorophenol, technical grade ³	lbs.	
6	Trichlorophenol ⁴	lbs.	
7	Picloram	lbs.	
8	Tordon 101 [®] 5	gals.	

9. Is same equipment used to produce "trichlorophenol, technical grade," and "trichlorophenol" except for additional processing required on the higher grade material. ☐ Yes ☐ No

Section II - CAPACITY - DEFOLIANTS - This section is to be completed by producers of (1) 2, 4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, or monochloroacetic acid, and/or 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, acetic acid, or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid and (2) "Orange" or Alternate to "Orange." (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☐

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid, salts	lbs. 6	
2	2,4-Dichlorophenoxy acetic acid, esters	lbs. 6	
3	2,4,5-Trichlorophenoxy acetic acid, salts	lbs. 6	
4	2,4,5-Trichlorophenoxy acetic acid, esters	lbs. 6	
5	"Orange" 1 2	gals.	
6	Alternate to "Orange" 2 7	gals.	

7. Is the same equipment used to produce esters of 2,4-D and 2,4,5-T? ☐ Yes ☐ No

8. Is there any limitation on the type of esters which the equipment can produce? ☐ Yes ☐ No
If response is "Yes," provide explanation.

Section III - ADDITIONAL CAPACITY, UNDER CONSTRUCTION OR AUTHORIZED - INTERMEDIATES AND DEFOLIANTS
(See last page for footnotes.)

Item No.	Item (a)	Unit (b)	Additional capacity (c)	Approximate completion date
1	2, 4-D	lbs. 6		000100
2	2,4,5-T	lbs. 6		
3	"Orange" 1 2	gals.	NONE	
4	Alternate to "Orange" 2 7	gals.		8365339

5	tetrachlorobenzene	lbs.		
6	Trichlorophenol, technical grade ³	lbs.		
7	Trichlorophenol ⁴	lbs.		
8	Picloram	lbs.		
9	Tordon 101 [®] ⁵	gals.		

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,4,5-T and 2,4,5-T esters and salts. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item	Production	Receipts		Consumption		Shipments ⁶		End of month stocks
			Domestic sources	Foreign sources	"Orange"	Other products	To military ⁹ defoliant producers	To others	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	
1	TCB		575,000		616,144				338,121
2	TCP, ³ tech.								
3	TCP ⁴								

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101[®]. (See last page for footnotes).

Item No.	Item	Unit	Production	Receipts		Non-military shipments ⁶		End of month stocks
				Domestic sources	Foreign sources	Domestic	Exports	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	
1	2,4-D	lbs. ⁶						
2	2,4,5-T	lbs. ⁶	625,200					71,600
3	"Orange" ¹	gals.						
4	Picloram	lbs.		10	10	10	10	10
5	Tordon 101 [®]	gals.						

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item	Unit	Production	Receipts		Non-military shipments ⁶		End of month stocks
				Domestic sources	Foreign sources	Domestic	Exports	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
	Other salts or esters (Identify):							
6		lbs. ⁶						
7		lbs. ⁶						
8		lbs. ⁶						
9		lbs. ⁶						
10	"Orange" ¹	gals.						
11	Alternate to "Orange" ²	gals.						

FORM DUSA-771 (5-10-67)

Please continue on reverse

USCOM-DC 33570-P67

ALN17056234

2	Technical material contained in total quantity of above material shipped to DoD.	4	Technical material contained in total quantity of above material shipped to DoD.												
	<table border="1"> <thead> <tr> <th>Item (a)</th><th>Quantity (lbs.) (b)</th></tr> </thead> <tbody> <tr> <td>2,4-D</td><td></td></tr> <tr> <td>2,4,5-T</td><td></td></tr> </tbody> </table>	Item (a)	Quantity (lbs.) (b)	2,4-D		2,4,5-T			<table border="1"> <thead> <tr> <th>Item (a)</th><th>Quantity (lbs.) (b)</th></tr> </thead> <tbody> <tr> <td>2,4-D</td><td></td></tr> <tr> <td>Picloram</td><td></td></tr> </tbody> </table>	Item (a)	Quantity (lbs.) (b)	2,4-D		Picloram	
Item (a)	Quantity (lbs.) (b)														
2,4-D															
2,4,5-T															
Item (a)	Quantity (lbs.) (b)														
2,4-D															
Picloram															

	Hours per shift	Shifts per day	Days per week
a. Work schedule for previous month	8	3	7
b. Anticipated work schedule required for maximum production	8	3	7

Footnotes:

Notes:

- 1 "Orange" - designation assigned to military defoliant formulation of butyl ester of 2,4-D and 2,4,5-T.
- 2 Based on capacity to produce 2,4,5-T component and regardless of availability of 2,4-D component.
- 3 Trichlorophenol, technical grade - designation assigned to TCP used in production of 2,4,5-T, 2,4,5-T esters and salts, "Orange", or alternate to "Orange". It can also be used to produce other products.
- 4 Trichlorophenol - Used to denote a higher grade material than that designated trichlorophenol, technical grade.
- 5 Based on capacity to produce picloram.
- 6 Acid equivalent.
- 7 Alternate to "Orange" - designation assigned to military defoliant formulation of butyl ester of 2,4-D and iso-octyl ester of 2,4,5-T.
- 8 Include transfers within the company, except material transferred to another location to be incorporated into military defoliants.
- 9 Shipments on rated orders to producers of military defoliants.
- 10 Include picloram in any form except in Tordon 101 [®], which is to be included in items 5 (d), 5 (e), 5 (f), 5 (g), and 5 (h), Section V.
- 11 On rated orders.

NOTE SECTION IV:

TCB:	
BEG. INV.	329,265
RECEIVED	609,180
RETURNS	<u>34,160</u>
ACT RECEIVED	<u>575,000</u>
TOTAL TO ACCOUNT FOR	904,265
USED	<u>616,144</u>
ENDING INVT.	<u>288,121</u>

NOTE SECTION V:

2,45-T:	
BEG. INVT.	103,630
PRODUCTION	<u>625,200</u>
TOTAL T. ACCOUNT FOR	728,830
TOTAL SHIPMENTS	667,230
LESS ALLOWANCE FOR MOISTURE	<u>101,000</u> 667,230
ENDING INVT.	71,600

ALL MATERIAL WAS SHIPPED TO MONSANTO'S W & KAUMMICH PLANT AT SANGET, ILL. FOR PROCESSING INTO ORANGE BARK

^E8365341

This report is required under Section 70 of the Defense Production Act of 1950, as amended.		BUDGET BUREAU NO. 41-R2107 APPROVAL EXPIRES JUNE 30, 1970	
FORM BDSAF-771 (8-10-67) U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS		1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below) MONSANTO COMPANY 800 N. LINDBERGH BLVD. ST. LOUIS, Mo.	
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544		3. Plant name NITRO	
2. Month and year reported JUNE 1968			
4. Plant location (See Instructions) N.W. OF NITRO ON VISCOSSE ROAD IN PUTNAM COUNTY STATE OF WEST VIRGINIA			
INSTRUCTIONS <p>Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future.</p> <p>File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process.</p> <p>Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1381 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilkes County, Maryland, or on State Route 29, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware.</p> <p>Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable.</p> <p>Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions:</p> <ol style="list-style-type: none"> 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak operations. <p>Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report.</p> <p>Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported.</p> <p>Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency.</p> <p>Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants.</p> <p>Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and picloram included in military defoliants shipped in the month is required.</p>			
Name of person who should be contacted if questions arise regarding this report E.A. CUTRIGHT		Telephone No. and Area code (304) 755-3341	
Certification - The undersigned company and the official executing this certification in its behalf hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.			
Name of company MONSANTO COMPANY		Signature of authorized official 002100	
Address of company 800 N. LINDBERGH BLVD. ST. LOUIS, Mo.		Title	Date
The U.S. Code, Title 18 (Crimes and Criminal Procedure), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction. The individual company information reported on this form is for use in defense mobilization activities. The unauthorized publication or disclosure of individual company information by Government personnel is prohibited by law, and such personnel having access thereto are subject to fine and imprisonment for unauthorized disclosure.			

Please complete form before signing certification

USCOMA-DC 33370-1-67

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ALN17056236

Section I - CAPACITY - INTERMEDIATES AND DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid, (2) "Orange," (3) tetrachlorobenzene, (4) trichlorophenol, (5) picloram, and (6) Tordon 101[®]. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☒

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid	lbs.	
2	2,4,5-Trichlorophenoxy acetic acid	lbs.	
3	"Orange" ^{1 2}	gals.	
4	Tetrachlorobenzene	lbs.	
5	Trichlorophenol, technical grade ³	lbs.	
6	Trichlorophenol ⁴	lbs.	
7	Picloram	lbs.	
8	Tordon 101 ^{® 5}	gals.	

9. Is same equipment used to produce "trichlorophenol, technical grade," and "trichlorophenol" except for additional processing required on the higher grade material. ☐ Yes ☐ No

Section II - CAPACITY - DEFOLIANTS - This section is to be completed by producers of (1) 2, 4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, or monochloroacetic acid, and/or 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, acetic acid, or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid and (2) "Orange" or Alternate to "Orange." (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☐

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid, salts	lbs. ⁶	
2	2,4-Dichlorophenoxy acetic acid, esters	lbs. ⁶	
3	2,4,5-Trichlorophenoxy acetic acid, salts	lbs. ⁶	
4	2,4,5-Trichlorophenoxy acetic acid, esters	lbs. ⁶	
5	"Orange" ^{1 2}	gals.	
6	Alternate to "Orange" ^{2 7}	gals.	

7. Is the same equipment used to produce esters of 2,4-D and 2,4,5-T? ☐ Yes ☐ No

8. Is there any limitation on the type of esters which the equipment can produce? ☐ Yes ☐ No
If response is "Yes," provide explanation.

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Section III - ADDITIONAL CAPACITY, UNDER CONSTRUCTION OR AUTHORIZED - INTERMEDIATES AND DEFOLIANTS
(See last page for footnotes.)

Item No.	Item (a)	Unit (b)	Additional capacity (c)	Approximate completion date (d)
1	2, 4-D	lbs. ⁶	—	—
2	2,4,5-T	lbs. ⁶	NONE	—
3	"Orange" ^{1 2}	gals.	—	—
4	Alternate to "Orange" ^{2 7}	gals.	—	—

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5	tetrachlorobenzene	lbs.	—	—
6	Trichlorophenol, technical grade ³	lbs.	—	—
7	Trichlorophenol ⁴	lbs.	—	—
8	Picloram	lbs.	—	—
9	Tordon 101 [®] ⁵	gals.	—	—

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,4,5-T and 2,4,5-T esters and salts. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item	Production	Receipts		Consumption		Shipments ⁸		End of month stocks
			Domestic sources	Foreign sources	"Orange"	Other products	To military ⁹ defoliant producers	To others	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
1	TCB		648,320		588,632				22,265
2	TCP, ³ tech.								
3	TCP ⁴								

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101[®]. (See last page for footnotes).

Item No.	Item	Unit	Production	Receipts		Non-military shipments ⁸		End of month stocks
				Domestic sources	Foreign sources	Domestic	Exports	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	2,4-D	lbs. ⁶						
2	2,4,5-T	lbs. ⁶	601,790					103,865
3	"Orange" ¹	gals.						
4	Picloram	lbs.		10	10	10	10	10
5	Tordon 101 [®]	gals.						

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item	Unit	Production	Receipts		Non-military shipments ⁸		End of month stocks
				Domestic sources	Foreign sources	Domestic	Exports	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
	Other salts or esters (Identify):							
6		lbs. ⁶						
7		lbs. ⁶						
8		lbs. ⁶						
9		lbs. ⁶						
10	"Orange" ¹	gals.						
11	Alternate to "Orange" ^{1,7}	gals.						

FORM IN 15AF-771 (8-10-87)

Please continue on reverse

USCOMM-DC 32570-1087

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ALN17056238

Section VIII - WORK SCHEDULE

Footnotes:

Section IX - REMARKS (Attach additional sheets if necessary.)

NOTE SECTION IV

TCB

BEG. BALANCE	267,577
--------------	---------

REC. 656, 220

RETURNS 7900 645,320

NET RECEIPTS 417.97

TOTAL TO ACC FOR $\rightarrow 111511$

USED 585,632

100-443887-100

ENDING INVENTORY 327,265

NOTE SECTION V

2.4.5 - T

BEG. BALANCE . 51980

P500. 601,770

$T_{\text{max}} = 1.1 \times F_{\text{max}} \quad 153,770$

TOTAL 16 APR 1964

TOTAL SHIPMENTS 560,170

SS ALLOWANCE FOR 10,000
MATURE

ET SUIVANTS 550,140

SHIPMENTS 500
~~500~~ 500 103 630

ENDING INV. 10-1-1951

ALL MATERIAL SHIPPED TO MANSANTO'S
W. K. KUMARICH PLANT AT SAUGET, ILL.
FOR PROCESSING INTO ORANGE PANDA.

FORM HHS-41-221 12-12-67)

Please complete certification on face of form

USCOMM-DC 33376-P47

ALN17056239

This report is required under Section 705 of the Defense Production Act of 1950, as amended.		BUDGET BUREAU NO. 41-RJ403 APPROVAL EXPIRES JUNE 30, 1979	
FORM BDSAF-771 (8-10-67) U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS		1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below) MONSANTO COMPANY 800 N. LINDBERGH BLVD. ST. LOUIS, MO.	
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544		3. Plant name NITRO	
2. Month and year reported MAY 1968			
4. Plant location (See Instructions) N.W. of NITRO ON VISCOSF ROAD IN PUTNAM COUNTY STATE OF WEST VIRGINIA			
INSTRUCTIONS Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future. File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process. Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1281 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilford County, Maryland, or on State Route 29, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware. Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable. Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions: 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak operations. Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report. Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported. Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency. Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants. Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and picloram included in military defoliants shipped in the month is required.			
Name of person who should be contacted if questions arise regarding this report E. A. CUTRIGHT		Telephone No. and Area code (304) 755-3341	
Certification - The undersigned company and the official executing this certification in its behalf hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.			
Name of company MONSANTO CO.		Signature of authorized official	
Address of company 800 N LINDBERGH BLVD ST LOUIS, MO.		Title ✓	Date
The U.S. Code, Title 18 (Crimes and Criminal Procedure), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction. The individual company information reported on this form is for use in defense mobilization activities. The unauthorized publication or disclosure of individual company information by Government personnel is prohibited by law, and such personnel having access thereto are subject to fine and imprisonment.			

Please complete form before signing certification

USCOMM-DC 33570-101

8365346

ALN17056240

Section I - CAPACITY - INTERMEDIATES AND DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid, (2) "Orange," (3) tetrachlorobenzene, (4) trichlorophenol, (5) picloram, and (6) Tordon 101[®]. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☒

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid	lbs.	
2	2,4,5-Trichlorophenoxy acetic acid	lbs.	
3	"Orange" ^{1 2}	gals.	
4	Tetrachlorobenzene	lbs.	
5	Trichlorophenol, technical grade ³	lbs.	
6	Trichlorophenol ⁴	lbs.	
7	Picloram	lbs.	
8	Tordon 101 [®] ⁵	gals.	

9. Is same equipment used to produce "trichlorophenol, technical grade," and "trichlorophenol" except for additional processing required on the higher grade material. ☐ Yes ☐ No

Section II - CAPACITY - DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, or monochloroacetic acid, and/or 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, acetic acid, or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid and (2) "Orange" or Alternate to "Orange." (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☐

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid, salts	lbs. ⁶	
2	2,4-Dichlorophenoxy acetic acid, esters	lbs. ⁶	
3	2,4,5-Trichlorophenoxy acetic acid, salts	lbs. ⁶	
4	2,4,5-Trichlorophenoxy acetic acid, esters	lbs. ⁶	
5	"Orange" ^{1 2}	gals.	
6	Alternate to "Orange" ^{2 7}	gals.	

7. Is the same equipment used to produce esters of 2,4-D and 2,4,5-T? ☐ Yes ☐ No

8. Is there any limitation on the type of esters which the equipment can produce? ☐ Yes ☐ No
If response is "Yes," provide explanation.

Section III - ADDITIONAL CAPACITY, UNDER CONSTRUCTION OR AUTHORIZED - INTERMEDIATES AND DEFOLIANTS
(See last page for footnotes.)

Item No.	Item (a)	Unit (b)	Additional capacity (c)	Approximate completion date (d)
1	2, 4-D	lbs. ⁶	-	-
2	2,4,5-T	lbs. ⁶	NONE	000120
3	"Orange" ^{1 2}	gals.	-	-
4	Alternate to "Orange" ^{2 7}	gals.	-	-

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5	Tetrachlorobenzene	lbs.		
6	Trichlorophenol, technical grade ³	lbs.		
7	Trichlorophenol ⁴	lbs.		
8	Picloram	lbs.		
9	Tordon 101 [®] 5	gals.		

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,4,5-T and 2,4,5-T esters and salts. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item (a)	Production (b)	Receipts		Consumption		Shipments [#]		End of month stocks (i)
			Domestic sources (c)	Foreign sources (d)	"Orange" (e)	Other products (f)	To military ⁹ defoliant producers (g)	To others (h)	
1	TCB		423,740		133,071	507,611			269,577
2	TCP, ³ tech.								
3	TCP ⁴								

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101[®]. (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments [#]		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D	lbs. ⁶						
2	2,4,5-T	lbs. ⁶	670,220					51,980
3	"Orange" ¹	gals.						
4	Picloram	lbs.		10	10	10	10	10
5	Tordon 101 [®]	gals.						

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments [#]		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
	Other salts or esters (Identify):							
6		lbs. ⁶						
7		lbs. ⁶						
8		lbs. ⁶						
9		lbs. ⁶						
10	"Orange" ¹	gals.						
11	Alternate to "Orange" ¹⁷	gals.						

FDHM (HSAP-77) (8-10-87)

Please continue on reverse

USCOMA-DC 33710-PST

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ALN17056242

Section VIII - WORK SCHEDULE

Footnotes:

1 "Orange" - designation assigned to military defoliant formulation of butyl ester of 2,4-D and 2,4,5-T.
 2 Based on capacity to produce 2,4,5-T component and regardless of availability of 2,4-D component.
 3 Trichlorophenol, technical grade - designation assigned to TCP used in production of 2,4,5-T, 2,4,5-T esters and salts, "Orange," or Alternate to "Orange". It can also be used to produce other products.
 4 Trichlorophenol - Used to denote a higher grade material than that designated trichlorophenol, technical grade.
 5 Based on capacity to produce picloram.
 6 Acid equivalent.
 7 Alternate to "Orange" - designation assigned to military defoliant formulation of butyl ester of 2,4-D and iso-octyl ester of 2,4,5-T.
 8 Include transfers within the company, except material transferred to another location to be incorporated into military defoliant.
 9 Shipments on rated orders to producers of military defoliants.
 10 Include picloram in any form except in Tordon 101 [®], which is to be included in items 5 (d), 5 (e), 5 (f), 5 (g), and 5 (h) Section V.
 11 On rated orders.

Section IX - REMARKS (Attach additional sheets if necessary.)

NOTE SECTION E

NOTE SECTION II

T4B

ESG. BALANCE 486,519

Rec. 437,940

Nettums 14,000

REF 600

NET REL. 423,748

TOTAL 5.

Used 690,682

ENDING INVENTORY 269,577

It is a "harmful" and "obscene" work.

2457 204. inv. 78890

Produced 670,220

TOTAL TO ACC. 749,110

Shipped 697,130

READING NR 5-1.980

2000

380,190 lbs were shipped to outside sales. Remainder of material (316,940) was shipped to Monsanto's WGA plant.

PLANT AT SAGERT ILL FOR FURTHER PROCESSING.

TOTAL SHIP 44,213.6
OWNER 165,600
Sales 531,550

4-111M ULSA1-211 (D-1U-07)

Please complete certification on face of form

USCOMM-DC 41370-1767

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ALN17056243

This report is required under Section 1001 of the Defense Production Act of 1950, as amended.		BUDGET BUREAU NO. 41-R2402 APPROVAL EXPIRES JUNE 30, 1970	
FORM BDSAF-771 (5-10-67) U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS		1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below) MONSANTO COMPANY 800 N. LINDBERGH BLVD. ST. LOUIS MO.	
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544		3. Plant name NITRO	
2. Month and year reported APRIL 1968			
4. Plant location (See Instructions) NW of NITRO on Viscose Road in PUTNAM COUNTY STATE of WEST VIRGINIA.			
INSTRUCTIONS <p>Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future.</p> <p>File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process.</p> <p>Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1281 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilford County, Maryland, or on State Route 29, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware.</p> <p>Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable.</p> <p>Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions:</p> <ol style="list-style-type: none"> 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak operations. <p>Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report.</p> <p>Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported.</p> <p>Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency.</p> <p>Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants.</p> <p>Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and picloram included in military defoliants shipped in the month is required.</p>			
Name of person who should be contacted if questions arise regarding this report E. A. CUTRIGHT		Telephone No. and Area code (304) 755 2341	
Certification - The undersigned company and the official executing this certification in its behalf hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.			
Name of company MONSANTO COMPANY		Signature of authorized official	
Address of company 800 N. LINDBERGH BLVD. ST. LOUIS MO.		Title	Date
The U.S. Code, Title 18 (Crimes and Criminal Procedure), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction. The individual company information reported on this form is for use in defense mobilization activities. The unauthorized publication or disclosure of individual company information by Government personnel is prohibited by law, and such personnel having access thereto are subject to fine and imprisonment for unauthorized disclosure.			

Please complete form before signing certification

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ALN17056244

Section I - CAPACITY - INTERMEDIATES AND DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid, (2) "Orange," (3) tetrachlorobenzene, (4) trichlorophenol, (5) picloram, and (6) Tordon 101[®]. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☒

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid	lbs.	
2	2,4,5-Trichlorophenoxy acetic acid	lbs.	
3	"Orange" ^{1 2}	gals.	
4	Tetrachlorobenzene	lbs.	
5	Trichlorophenol, technical grade ³	lbs.	
6	Trichlorophenol ⁴	lbs.	
7	Picloram	lbs.	
8	Tordon 101 ^{® 5}	gals.	

9. Is same equipment used to produce "trichlorophenol, technical grade," and "trichlorophenol" except for additional processing required on the higher grade material. ☐ Yes ☐ No

Section II - CAPACITY - DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, or monochloroacetic acid, and/or 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, acetic acid, or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid and (2) "Orange" or Alternate to "Orange." (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☐

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid, salts	lbs. ⁶	
2	2,4-Dichlorophenoxy acetic acid, esters	lbs. ⁶	
3	2,4,5-Trichlorophenoxy acetic acid, salts	lbs. ⁶	
4	2,4,5-Trichlorophenoxy acetic acid, esters	lbs. ⁶	
5	"Orange" ^{1 2}	gals.	
6	Alternate to "Orange" ^{2 7}	gals.	

7. Is the same equipment used to produce esters of 2,4-D and 2,4,5-T? ☐ Yes ☐ No

8. Is there any limitation on the type of esters which the equipment can produce? ☐ Yes ☐ No
If response is "Yes," provide explanation.

Section III - ADDITIONAL CAPACITY, UNDER CONSTRUCTION OR AUTHORIZED - INTERMEDIATES AND DEFOLIANTS
(See last page for footnotes.)

Item No.	Item (a)	Unit (b)	Additional capacity (c)	Approximate completion date (d)
1	2, 4-D	lbs. ⁶	—	—
2	2,4,5-T	lbs. ⁶	NONE	—
3	"Orange" ^{1 2}	gals.	—	08/13/04

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5	Tetrachlorobenzene	lbs.	—	—
6	Trichlorophenol, technical grade ³	lbs.	—	—
7	Trichlorophenol ⁴	lbs.	—	—
8	Picloram	lbs.	—	—
9	Tordon 101 ⁽¹⁾ ⁵	gals.	—	—

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,4,5-T and 2,4,5-T esters and salts. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item (a)	Production (b)	Receipts		Consumption		Shipments ⁶		End of month stocks (i)
			Domestic sources (c)	Foreign sources (d)	"Orange" (e)	Other products (f)	To military ⁷ defoliant producers (g)	To others (h)	
1	TCB		731,600			593,133			464,519
2	TCP, ³ tech.								
3	TCP ⁴								

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101⁽¹⁾. (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments ⁶		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D	lbs. ⁶						
2	2,4,5-T	lbs. ⁶	606,030					78,890
3	"Orange" ¹	gals.						
4	Picloram	lbs.		10	10	10	10	10
5	Tordon 101 ⁽¹⁾	gals.						

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments ⁶		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
	Other salts or esters (Identify):							
6		lbs. ⁶						
7		lbs. ⁶						
8		lbs. ⁶						
9		lbs. ⁶						
10	"Orange" ¹	gals.						
11	Alternate to "Orange" ^{1,7}	gals.						

FORM 803AF-771 (8-10-87)

Please continue on reverse

USCOM-DC 33370-147

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Section VII - SHIPMENTS TO DEPARTMENT OF DEFENSE - DEFOLIANTS ^{1,2} (See below for footnotes; attach additional sheets if necessary.)							
Item No.	Item (a)	Date on D.D. 250 (b)	Quantity (gals.) (c)	Item No.	Item (a)	Date on D.D. 250 (b)	Quantity (gals.) (c)
1	"Orange" ^{1,2} or Alternate to "Orange" ^{1,2}			3	Tordon 101 ¹⁰		
	Total		NONE		Total		NONE
2	Technical material contained in total quantity of above material shipped to DoD.			4	Technical material contained in total quantity of above material shipped to DoD.		
	Item (a)	Quantity (lbs.) (b)			Item (a)	Quantity (lbs.) (b)	
	2,4-D				2,4-D		
	2,4,5-T				Picloram		
Section VIII - WORK SCHEDULE							
				Hours per shift		Shifts per day	
a. Work schedule for previous month				8		3	
b. Anticipated work schedule required for maximum production				8		3	
Footnotes:							
¹ "Orange" - designation assigned to military defoliant formulation of butyl ester of 2,4-D and 2,4,5-T.							
² Based on capacity to produce 2,4,5-T component and regardless of availability of 2,4-D component.							
³ Trichlorophenol, technical grade - designation assigned to TCP used in production of 2,4,5-T, 2,4,5-T esters and salts, "Orange," or Alternate to "Orange". It can also be used to produce other products.							
⁴ Trichlorophenol - Used to denote a higher grade material than that designated trichlorophenol, technical grade.							
⁵ Based on capacity to produce picloram.							
⁶ Acid equivalent.							
⁷ Alternate to "Orange" - designation assigned to military defoliant formulation of butyl ester of 2,4-D and iso-octyl ester of 2,4,5-T.							
⁸ Include transfers within the company, except material transferred to another location to be incorporated into military defoliants.							
⁹ Shipments on rated orders to producers of military defoliants.							
¹⁰ Include picloram in any form except in Tordon 101 ¹⁰ , which is to be included in items 5 (d), 5 (e), 5 (f), 5 (g), and 5 (h), Section V.							
¹¹ On rated orders.							
Section IX - REMARKS (Attach additional sheets if necessary.)							
NOTE SECTION III				NOTE SECTION I			
TCB:				245-T.			
BEG. INVENTORY 348,052				BEG. INV 88,550			
REC. 744,100				PRODUCED 606,050			
RETURNS 12,500				TOTAL 694,600			
NET REC. 731,600				SHIPPED 615,710			
TOTAL TO ACL. 1,079,652				END. INV. 78,890			
USED. 543,137							
ENDING INV. 486,519							
ALL SHIPMENTS WENT TO DOMESTIC USE. NONE FOR ORANGE BRAND							

FORM DEFENSE 773 (5-10-87)

Please complete certification on back of form

USCOMM-DC 31170/102

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ALN17056247

This report is required under Section 705 of the Defense Production Act of 1950, as amended.		BUDGET BUREAU NO. 41-R7497 APPROVAL EXPIRES JUNE 30, 1970	
FORM BDSAF-771 (6-10-67) U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS		1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below) <i>MONSANTO COMPANY</i> <i>800 N. LINDBERGH BLVD</i> <i>ST. LOUIS, MO.</i>	
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544		3. Plant name <i>NITRO</i>	
2. Month and year reported <i>MARCH 1968</i>			
4. Plant location (See instructions) <i>NW of Nitro on Visbeck Road in Putnam County</i> <i>STATE of WEST VIRGINIA</i>			
INSTRUCTIONS <p>Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future.</p> <p>File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process.</p> <p>Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1281 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilford County, Maryland, or on State Route 29, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware.</p> <p>Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable.</p> <p>Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions:</p> <ol style="list-style-type: none"> 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak operations. <p>Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report.</p> <p>Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported.</p> <p>Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency.</p> <p>Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants.</p> <p>Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and picloram included in military defoliants shipped in the month is required.</p>			
Name of person who should be contacted if questions arise regarding this report <i>E. A. CUTRIGHT</i>		Telephone No. and Area code <i>(304) 755-3341</i>	
Certification - The undersigned company and the official executing this certification in its behalf hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.			
Name of company <i>MONSANTO COMPANY</i>		Signature of authorized official	
Address of company <i>800 N. LINDBERGH BLVD</i> <i>ST. LOUIS, MO.</i>		Title	Date
The U.S. Code, Title 18 (Crimes and Criminal Procedure), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction. The individual providing information reported on this form is for use in defense mobilization activities. The unauthorized publication or disclosure of individual information reported on this form is prohibited by law, and such personnel having access thereto are subject to fine and imprisonment for unauthorized disclosure.			

Please complete form before signing certification

USCOMM-IC 33570-001

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ALN17056248

Section I - CAPACITY - INTERMEDIATES AND DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid, (2) "Orange," (3) tetrachlorobenzene, (4) trichlorophenol, (5) picloram, and (6) Tordon 101⁽⁶⁾. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☒

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid	lbs.	
2	2,4,5-Trichlorophenoxy acetic acid	lbs.	
3	"Orange" ^{1 2}	gals.	
4	Tetrachlorobenzene	lbs.	
5	Trichlorophenol, technical grade ³	lbs.	
6	Trichlorophenol ⁴	lbs.	
7	Picloram	lbs.	
8	Tordon 101 ^{(6) 5}	gals.	

9. Is same equipment used to produce "trichlorophenol, technical grade," and "trichlorophenol" except for additional processing required on the higher grade material. ☐ Yes ☐ No

Section II - CAPACITY - DEFOLIANTS - This section is to be completed by producers of (1) 2, 4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, or monochloroacetic acid, and/or 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, acetic acid, or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid and (2) "Orange" or Alternate to "Orange." (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☐

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid, salts	lbs. ⁶	
2	2,4-Dichlorophenoxy acetic acid, esters	lbs. ⁶	
3	2,4,5-Trichlorophenoxy acetic acid, salts	lbs. ⁶	
4	2,4,5-Trichlorophenoxy acetic acid, esters	lbs. ⁶	
5	"Orange" ^{1 2}	gals.	
6	Alternate to "Orange" ^{2 7}	gals.	

7. Is the same equipment used to produce esters of 2,4-D and 2,4,5-T? ☐ Yes ☐ No

8. Is there any limitation on the type of esters which the equipment can produce? ☐ Yes ☐ No
If response is "Yes," provide explanation.

Section III - ADDITIONAL CAPACITY, UNDER CONSTRUCTION OR AUTHORIZED - INTERMEDIATES AND DEFOLIANTS
(See last page for footnotes.)

Item No.	Item (a)	Unit (b)	Additional capacity (c)	Approximate completion date (d)
1	2, 4-D	lbs. ⁶	—	—
2	2,4,5-T	lbs. ⁶	NONE	06/21/06
3	"Orange" ^{1 2}	gals.	—	—
4	Alternate to "Orange" ^{2 7}	gals.		

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6	Trichlorophenol, technical grade ³	lbs.	—	—
7	Trichlorophenol ⁴	lbs.	—	—
8	Picloram	lbs.	—	—
9	Tordon 101 (R) ⁵	gals.	—	—

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,4,5-T and 2,4,5-T esters and salts. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item (a)	Production (b)	Receipts		Consumption		Shipments ⁶		End of month stocks (i)
			Domestic sources (c)	Foreign sources (d)	"Orange" (e)	Other products (f)	To military ⁶ defoliant producers (g)	To others (h)	
1	TCB		588,540		612,281				348,052
2	TCP, ³ tech.								
3	TCP ⁴								

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101 (R). (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments ⁶		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D	lbs. ⁶						
2	2,4,5-T	lbs. ⁶	594,320					88,550
3	"Orange" ¹	gals.						
4	Picloram	lbs.		10	10	10	10	10
5	Tordon 101 (R)	gals.						

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments ⁶		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
	Other salts or esters (Identify):							
6		lbs. ⁶						
7		lbs. ⁶						
8		lbs. ⁶						
9		lbs. ⁶						
10	"Orange" ¹	gals.						
11	Alternate to "Orange" ⁷	gals.						

FORM D08AF-771 (8-10-87)

Please continue on reverse

USCOMB-DC 3870-107

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ALN17056250

2	Technical material contained in total quantity of above material shipped to DoD.	4	Technical material contained in total quantity of above material shipped to DoD.												
	<table border="1"> <thead> <tr> <th>Item (a)</th><th>Quantity (lbs.) (b)</th></tr> </thead> <tbody> <tr> <td>2,4-D</td><td></td></tr> <tr> <td>2,4,5-T</td><td></td></tr> </tbody> </table>	Item (a)	Quantity (lbs.) (b)	2,4-D		2,4,5-T			<table border="1"> <thead> <tr> <th>Item (a)</th><th>Quantity (lbs.) (b)</th></tr> </thead> <tbody> <tr> <td>2,4-D</td><td></td></tr> <tr> <td>Picloram</td><td></td></tr> </tbody> </table>	Item (a)	Quantity (lbs.) (b)	2,4-D		Picloram	
Item (a)	Quantity (lbs.) (b)														
2,4-D															
2,4,5-T															
Item (a)	Quantity (lbs.) (b)														
2,4-D															
Picloram															

	Hours per shift	Shifts per day	Days per week
a. Work schedule for previous month	8	3	7
b. Anticipated work schedule required for maximum production	8	3	7

Footnotes:

1"Orange" - designation assigned to military defoliant formulation of butyl ester of 2,4-D and 2,4,5-T.

²Based on capacity to produce 2,4,5-T component and regardless of availability of 2,4-D component.

³Trichlorophenol, technical grade - designation assigned to TCP used in production of 2,4,5-T, 2,4,5-T esters and salts, "Orange" or Atrinate to "Orange". It can also be used to produce other products.

*Trichlorophenol - Used to denote a higher grade material than that designated trichlorophenol, technical grade.

⁵Based on capacity to produce picloram.

* Acid equivalent.

*Alternate to "Orange" - designation assigned to military defoliant formulation of butyl ester of 2,4-D and iso-octyl ester of 2,4,5-T.

2,4,5-T.
 Exclude transfers within the company, except material transferred to another location to be incorporated into military defoliants.

⁹Shipments on rated orders to producers of military defoliants.

¹⁰Include pictoram in any form except in Tordon 101 ^(b), which is to be included in items 5 (d), 5 (e), 5 (f), 5 (g), and 5 (h), Section V.

On rated orders.

Section IX - REMARKS (Attach additional sheets if necessary.)

NOTE: SECTION IV

748:

EXPENDING INT. ~~371,793~~ 371,793

Per. 21227 599,240

Net. Paid. 10.700

2023 Net Sales 588,540 588,540

NET RECEIVED 100 6/033

TOTAL AVAILABLE. 460,333

LESS USAGE 612,20

ENDING INV 348,000

ENDING

532,000 lbs were shipped to Minnesota W.G. Krummrich Plant

AT BUDGET ILLINOIS FOR FURTHER PROGRAMING. ALL

INTERIM WAS FOR DENNIS BRAND.

NOTE SECTION V

2457

Rec. inv 26,950

594,320

630.770

71702 630.110
- 533 330

Subscriptions \$ 32,200

ENDING INV. 68,550

8365357

This report is required under Section 705 of the Defense Production Act of 1950, as amended.		BUDGET BUREAU NO. 41-R2402 APPROVAL EXPIRES JUNE 30, 1970	
FORM BDSAF-771 (8-10-67) U.S. DEPARTMENT OF COMMERCE BUSINESS AND DEFENSE SERVICES ADMINISTRATION INTERMEDIATES AND DEFOLIANTS CAPACITY, PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS		1. Name and address of company (Principal office) (Street, City, State and Zip code) (If name and address has changed please show below) MONSANTO COMPANY 800 N. LINDBERGH BLVD ST. LOUIS, MO.	
Return to: U.S. Department of Commerce Washington, D.C. 20230 Attention: Business and Defense Services Administration Chemicals and Allied Products Division - 544		3. Plant name NITRO	
2. Month and year reported February 1968			
4. Plant location (See instructions) NW of NITRO on VISCOSSE ROAD IN PUTNAM COUNTY STATE of WEST VIRGINIA			
INSTRUCTIONS <p>Mailing - Prepare and return one copy of this report to the Business and Defense Services Administration, U.S. Department of Commerce, Washington, D.C. 20230, no later than the 10th of the month following the report month. A separate complete report must be filed for each establishment of your company which in the previous month produced one or more of the items listed in Column (a) of Sections I or II or is scheduled to produce one or more of these items in the future.</p> <p>File Copy - In addition to the original report form to be returned to us, there is enclosed a file copy for your records. You are not legally required to fill out or retain this file copy. While it would be a convenience to the Government for a file copy to be made and retained for reference purposes, no assurances can be provided that file copies are exempt from compulsory examination or production pursuant to legal process.</p> <p>Plant Location - In reporting plant location, give the street address, names of the boundary streets between which the plant lies, city, county and state. If the plant does not have a street address, the location may be specified as distance and direction from a town on a State or Federal Highway. For example, the plant location could be reported as 1281 Bradley Street, between Oak Street and Meadow Avenue, Universal City, Wilford County, Maryland, or on State Route 29, 2.4 miles Southwest of Clearbrook, Maynard County, Delaware.</p> <p>Estimates - If exact data are not available for any item, carefully prepared estimates are acceptable.</p> <p>Sections I and II - CAPACITY - Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section I. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section II. Report in Column (c) your monthly capacity as of the last day of the month covered in this report, under the following conditions and assumptions:</p> <ol style="list-style-type: none"> 1. Assume your current product mix. 2. Assume the plant operates on its current work schedule. 3. Take into account the use of only those building facilities and machinery which are in place including useable equipment idle as of the last day of the month covered. 4. Assume the availability of adequate labor force, production materials, utilities, etc. 5. Take into account machinery downtime required for maintenance and repairs needed to sustain peak operations. <p>Companies are not required to complete line 6, Section II, Alternate to "Orange," until the military specification for this formulation is approved in final form, at which time it will be forwarded by BDSA to all companies required to complete this report.</p> <p>Section III - ADDITIONAL CAPACITY UNDER CONSTRUCTION OR AUTHORIZED - This section is to be completed by companies making expansions either in existing or other facilities. If construction of additional capacity has begun or is authorized at a location at which no capacity currently exists for producing the subject products, a separate report should be completed on that location. Assume the product mix which the plant is scheduled to have when completed. For line 4, Section III, Alternate to "Orange," see instruction on this item under Capacity. Though you have reported specific "additional capacity" in a given month, continue to report that "additional capacity" (column c) in succeeding months and supply a revised "approximate completion date" (column d), until the expansion is complete. BDSA must be kept informed of the latest estimated date of completion for every item of "additional capacity" initially reported.</p> <p>Sections IV, V and VI - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - For Section IV, see instruction at the beginning of the table. Basic producers who separate 2,4-D and/or 2,4,5-T acid will report in Section V. Basic producers who do not separate 2,4-D and/or 2,4,5-T acid will report in Section VI. Production for the purpose of this report is the sum of the quantities produced and consumed in the same plant; produced and transferred to other plants of your company; produced and sold to other companies; and produced and held in stock. On 2,4-D and 2,4,5-T acid, for which the Tariff Commission requires monthly production, include the same data in this report as that furnished the other Agency.</p> <p>Non-military shipments should include transfers made within the company, except for material transferred from one point to another to be incorporated into military defoliants.</p> <p>Section VII - SHIPMENTS TO THE DEPARTMENT OF DEFENSE - List the date and quantity of each shipment of defoliants to the Department of Defense. Only the total amount of 2,4-D, 2,4,5-T and picloram included in military defoliants shipped in the month is required.</p>			
Name of person who should be contacted if questions arise regarding this report E. A. CUTRIGHT		Telephone No. and Area code (304) 755-3341	
Certification - The undersigned company and the official executing this certification in its behalf hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.			
Name of company MONSANTO COMPANY		Signature of authorized official [Signature]	
Address of company 800 N. LINDBERGH BLVD ST. LOUIS MO.		Title [Signature]	Date 8-21-68
The U.S. Code, Title 18 (Crimes and Criminal Procedure), Section 1401, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction. The individual company information reported on this form is for use in defense mobilization activities. The unauthorized publication or disclosure of individual company information by Government personnel is prohibited by law, and such personnel having access thereto are subject to fine and imprisonment for unauthorized disclosure.			

Please complete form before signing certification

USCOMM-DC 33370-MB

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Section I - CAPACITY - INTERMEDIATES AND DEFOLIANTS - This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid, (2) "Orange," (3) tetrachlorobenzene, (4) trichlorophenol, (5) picloram, and (6) Tordon 101[®]. Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☒

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid	lbs.	
2	2,4,5-Trichlorophenoxy acetic acid	lbs.	
3	"Orange" ^{1 2}	gals.	
4	Tetrachlorobenzene	lbs.	
5	Trichlorophenol, technical grade ³	lbs.	
6	Trichlorophenol ⁴	lbs.	
7	Picloram	lbs.	
8	Tordon 101 ^{® 5}	gals.	

9. Is same equipment used to produce "trichlorophenol, technical grade," and "trichlorophenol" except for additional processing required on the higher grade material. ☐ Yes ☐ No

Section II - CAPACITY - DEFOLIANTS - This section is to be completed by producers of (1) 2, 4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid, or monochloroacetic acid, and/or 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, acetic acid, or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid and (2) "Orange" or Alternate to "Orange." (See last page for footnotes.)

If capacity has not changed since last report, check here and do not complete this section. ☐

Item No.	Item (a)	Unit (b)	Monthly capacity as of last day of the month (c)
1	2,4-Dichlorophenoxy acetic acid, salts	lbs. ⁶	
2	2,4-Dichlorophenoxy acetic acid, esters	lbs. ⁶	
3	2,4,5-Trichlorophenoxy acetic acid, salts	lbs. ⁶	
4	2,4,5-Trichlorophenoxy acetic acid, esters	lbs. ⁶	
5	"Orange" ^{1 2}	gals.	
6	Alternate to "Orange" ^{2 7}	gals.	

7. Is the same equipment used to produce esters of 2,4-D and 2,4,5-T? ☐ Yes ☐ No

8. Is there any limitation on the type of esters which the equipment can produce? ☐ Yes ☐ No
If response is "Yes," provide explanation.

Section III - ADDITIONAL CAPACITY, UNDER CONSTRUCTION OR AUTHORIZED - INTERMEDIATES AND DEFOLIANTS
(See last page for footnotes.)

Item No.	Item (a)	Unit (b)	Additional capacity (c)	Approximate completion date (d)
1	2, 4-D	lbs. ⁶	—	—
2	2,4,5-T	lbs. ⁶	NONE	—
3	"Orange" ^{1 2}	gals.	—	882F40
4	Alternate to "Orange" ^{2 7}	gals.	—	

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5	Tetrachlorobenzene	lbs.	—	—
6	Trichlorophenol, technical grade	lbs.	—	—
7	Trichlorophenol ^d	lbs.	—	—
8	Picloram	lbs.	—	—
9	Tordon 101 ^(R) S	gals.	—	—

Section IV - PRODUCTION, RECEIPTS, CONSUMPTION, SHIPMENTS AND STOCKS - INTERMEDIATES (lbs.). This section is to be completed by basic producers of tetrachlorobenzene, 2,4,5-T and 2,4,5-T esters and salts. (Producers of 2,4,5-T who do not separate trichlorophenol are not required to report on this item. (See last page for footnotes).

Item No.	Item (a)	Production (b)	Receipts		Consumption		Shipments ^d		End of month stocks (i)
			Domestic sources (c)	Foreign sources (d)	"Orange" (e)	Other products (f)	To military ^g defoliant producers (g)	To others (h)	
1	TCB		499,280		423,134				371,793
2	TCP, ^j tech.								
3	TCP ^k								

Section V - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid and/or 2,4,5-trichlorophenoxy acetic acid who separate the acid (2) "Orange", (3) picloram, and (4) Tordon 101 ^(R). (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments ^d		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D	lbs. ⁶						
2	2,4,5-T	lbs. ⁶	407560					26450
3	"Orange" ¹	gals.						
4	Picloram	lbs.		10	10	10	10	10
5	Tordon 101 ^(R)	gals.						

Section VI - PRODUCTION, RECEIPTS, NON-MILITARY SHIPMENTS AND STOCKS - DEFOLIANTS. This section is to be completed by producers of (1) 2,4-dichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid and 2,4,5-trichlorophenoxy acetic acid salts and/or esters from chlorine, phenol, dichlorophenol, acetic acid or monochloroacetic acid, as well as tetrachlorobenzene or trichlorophenol, without separating the acid, (2) "Orange" and (3) Alternate to "Orange" made from these esters. (See last page for footnotes).

Item No.	Item (a)	Unit (b)	Production (c)	Receipts		Non-military shipments ^d		End of month stocks (h)
				Domestic sources (d)	Foreign sources (e)	Domestic (f)	Exports (g)	
1	2,4-D, dimethylamine salt	lbs. ⁶						
2	2,4-D, butyl ester	lbs. ⁶						
3	2,4-D, iso-octyl ester	lbs. ⁶						
4	2,4,5-T, butyl ester	lbs. ⁶						
5	2,4,5-T, iso-octyl ester	lbs. ⁶						
	Other salts or esters (Identify):							
6		lbs. ⁶						
7		lbs. ⁶						
8		lbs. ⁶						
9		lbs. ⁶						
10	"Orange" ¹	gals.						
11	Alternate to "Orange" ¹⁷	gals.						002141

FORM 105AF-771 (8-10-87)

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USCOM-DC 31170-P07

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